

line := "PMMAT2|105005|Adamová, Marie lzkIESF B-HPS FP [sem 2]

zadani pro, "Adamová, Marie "; 105005

pomoci vhodne substituce vypoctete integral

`2*Int((x^2+1)*(x^2+1+2*arctan(x^2+1)*x^4+4*arctan(x^2+1)*x^2+4*arctan(x^2+1))*x/(x^4+2*x^2+2),x) = (x^2+1)^2*arctan(x^2+1)`

$$\left[2 \int (x^2 + 1) \frac{(x^2 + 1 + 2 \arctan(x^2 + 1) x^4 + 4 \arctan(x^2 + 1) x^2 + 4 \arctan(x^2 + 1)) x}{(x^4 + 2 x^2 + 2)} dx = (x^2 + 1)^2 \arctan(x^2 + 1), \text{ substituce: } t = x^2 + 1, \int \frac{t^2}{t^2 + 1} + 2 t \arctan(t) dt = \arctan(t) t^2 \right]$$

line := "PMMAT2| 99521|Albrechtová, Kristýna|lzkIESF B-HPS NH [sem 6]

zadani pro, "Albrechtová, Kristýna", 99521

pomoci vhodne substituce vypoctete integral

`Int((cos(ln(x))*ln(x)+sin(ln(x)))/x,x) = sin(ln(x))*ln(x)`

$$\left[\int \frac{\cos(\ln(x)) \ln(x) + \sin(\ln(x))}{x} dx = \sin(\ln(x)) \ln(x), \text{ substituce: } t = \ln(x), \int \cos(t) t + \sin(t) dt = \sin(t) t \right]$$

line := "PMMAT2|100108|Babák, Jan lzkIESF M-HPS RRS [sem 6]

zadani pro, "Babák, Jan "; 100108

pomoci vhodne substituce vypoctete integral

`ln(2)*Int(2^sin(x)*cos(x),x) = 2^sin(x)`

$$\left[\ln(2) \int 2^{\sin(x)} \cos(x) dx = 2^{\sin(x)}, \text{ substituce: } t = \sin(x), \int 2^t \ln(2) dt = 2^t \right]$$

line :=

"PMMAT2|174666|Bednář, Martin lzkIESF M-HPS HOSP [sem 2]

zadani pro, "Bednář, Martin "; 174666

pomoci vhodne substituce vypoctete integral

`-2*Int((-x^2-1+2*arctan(x^2+1)*x^4+4*arctan(x^2+1)*x^2+4*arctan(x^2+1))*x/(x^4+2*x^2+2)/(x^2+1)^3,x) = arctan(x^2+1)/(x^2+1)^2`

$$\left[-2 \int \frac{(-x^2 - 1 + 2 \arctan(x^2 + 1) x^4 + 4 \arctan(x^2 + 1) x^2 + 4 \arctan(x^2 + 1))}{(x^4 + 2x^2 + 2)(x^2 + 1)^3} dx = \frac{\arctan(x^2 + 1)}{(x^2 + 1)^2}, \text{ substitute: } t = x^2 + 1, \int \frac{1}{(t^2 + 1)t^2} - \frac{2 \arctan(t)}{t^3} dt = \frac{\arctan(t)}{t^2} \right]$$

line :=

"PMMAT2|174933|Benda, Vladislav |zkIESF M-EKT EKON [sem 2]

zadani pro, "Benda, Vladislav "; 174933

pomoci vhodne substituce vypoctete integral

`2*Int(cos(x^2-1)/sin(x^2-1)*x, x) = ln(sin((x-1)*(x+1)))`

$$\left[2 \int \frac{\cos(x^2 - 1)x}{\sin(x^2 - 1)} dx = \ln(\sin((x - 1)(x + 1))), \text{ substitute: } t = x^2 - 1, \int \frac{\cos(t)}{\sin(t)} dt = \ln(\sin(t)) \right]$$

line := "PMMAT2|172164|Beněková, Petra |zkIESF B-HPS FP [sem 2]

zadani pro, "Beněková, Petra "; 172164

pomoci vhodne substituce vypoctete integral

`2*Int(sin(x)*cos(x)/(2-2*cos(x)^2+cos(x)^4), x) = arctan(sin(x)^2)`

$$\left[2 \int \frac{\sin(x) \cos(x)}{2 - 2 \cos(x)^2 + \cos(x)^4} dx = \arctan(\sin(x)^2), \text{ substitute: } t = \sin(x), \int \frac{2t}{t^4 + 1} dt = \arctan(t^2) \right]$$

line := "PMMAT2|174769|Blaha, Robert |zkIESF M-HPS FP [sem 2]

zadani pro, "Blaha, Robert "; 174769

pomoci vhodne substituce vypoctete integral

`Int((cos(sin(x))*sin(x)-sin(sin(x)))*cos(x)/sin(x)^2, x) = sin(sin(x))/sin(x)`

$$\left[\int \frac{(\cos(\sin(x)) \sin(x) - \sin(\sin(x))) \cos(x)}{\sin(x)^2} dx = \frac{\sin(\sin(x))}{\sin(x)}, \text{ substitute: } t = \sin(x), \int \frac{\cos(t)}{t} - \frac{\sin(t)}{t^2} dt = \frac{\sin(t)}{t} \right]$$

line := "PMMAT2|151092|Cífka, Michal |zkIESF B-EKM POH [sem 2]

zadani pro, "Cífka, Michal "; 151092

pomoci vhodne substituce vypoctete integral

$$\int 2 \arctan(x^2+1) x^4 + 2 \arctan(x^2+1) x^2 + 2 \arctan(x^2+1) x + x^2 + 1 \cdot x / (x^4 + 2x^2 + 2) dx = (x^2+1) \arctan(x^2+1)$$

$$\left[2 \int \frac{(\arctan(x^2+1) x^4 + 2 \arctan(x^2+1) x^2 + 2 \arctan(x^2+1) x + x^2 + 1) x}{x^4 + 2x^2 + 2} dx = (x^2+1) \arctan(x^2+1), \text{ substitute: } t = x^2 + 1, \right.$$

$$\left. \int \arctan(t) + \frac{t}{t^2 + 1} dt = t \arctan(t) \right]$$

line := "PMMAT2|171784|Diani¹ka, Róbert |zkIESF B-HPS FP [sem 2]

zadani pro, "Diani¹ka, Róbert ", 171784

pomoci vhodne substituce vypoctete integral

$$\int 2 \ln(\sin(x)) \cos(x) dx = 2 \ln(\sin(x))$$

$$\left[2 \int \frac{\cos(x)}{\sin(x)} dx = 2 \ln(\sin(x)), \text{ substitute: } t = \sin(x), \int \frac{2}{t} dt = 2 \ln(t) \right]$$

line := "PMMAT2|136915|Dole³el, Tomá¹ |zkIESF B-HPS NH [sem 4]

zadani pro, "Dole³el, Tomá¹ ", 136915

pomoci vhodne substituce vypoctete integral

$$\int 2 \cos(x^2+1) x dx = \sin(x^2+1)$$

$$\left[2 \int \cos(x^2+1) x dx = \sin(x^2+1), \text{ substitute: } t = x^2 + 1, \int \cos(t) dt = \sin(t) \right]$$

line := "PMMAT2|171845|Fajtová, Veronika |zkIESF B-HPS FP [sem 2]

zadani pro, "Fajtová, Veronika ", 171845

pomoci vhodne substituce vypoctete integral

$$\int \frac{(\cos(\sin(x)) \sin(x) - \sin(\sin(x))) \cos(x)}{\sin(x)^2} dx = \frac{\sin(\sin(x))}{\sin(x)}$$

$$\left[\int \frac{(\cos(\sin(x)) \sin(x) - \sin(\sin(x))) \cos(x)}{\sin(x)^2} dx = \frac{\sin(\sin(x))}{\sin(x)}, \text{ substitute: } t = \sin(x), \int \frac{\cos(t)}{t} - \frac{\sin(t)}{t^2} dt = \frac{\sin(t)}{t} \right]$$

line := "PMMAT2|172168|Ferèák, Ondrej |zkIESF B-HPS NH [sem 2]

zadani pro, "Ferèák, Ondrej ", 172168

pomoci vhodne substituce vypoctete integral

$$\int \ln(x) \cdot (\ln(x) + 2 \arctan(\ln(x))) \cdot \ln(x)^2 + 2 \arctan(\ln(x)) / (\ln(x)^2 + 1) / x dx = \arctan(\ln(x)) \cdot \ln(x)^2$$

$$\left[\int \frac{\ln(x) (\ln(x) + 2 \arctan(\ln(x)) \ln(x)^2 + 2 \arctan(\ln(x)))}{(\ln(x)^2 + 1) x} dx = \right. \\ \left. \arctan(\ln(x)) \ln(x)^2, \text{ substitute: } t = \ln(x), \right. \\ \left. \int \frac{t^2}{t^2 + 1} + 2 t \arctan(t) dt = \arctan(t) t^2 \right]$$

line := "PMMAT2|172186|Florová, Zuzana |zkIESF B-HPS RRS [sem 2]
zadani pro, "Florová, Zuzana "; 172186

pomoci vhodne substitute vypoctete integral
 ` -Int(1/sin(x)^2*cos(x), x) = 1/sin(x) `

$$\left[- \int \frac{\cos(x)}{\sin(x)^2} dx = \frac{1}{\sin(x)}, \text{ substitute: } t = \sin(x), \int - \frac{1}{t^2} dt = \frac{1}{t} \right]$$

line := "PMMAT2|135083|Havliřta, Lukáš |zkIESF B-HPS NH [sem 2]
zadani pro, "Havliřta, Lukáš "; 135083

pomoci vhodne substitute vypoctete integral
 ` 2*Int(ln(x)*exp(ln(x)^2)/x, x) = exp(ln(x)^2) `

$$\left[2 \int \frac{\ln(x) e^{(\ln(x)^2)}}{x} dx = e^{(\ln(x)^2)}, \text{ substitute: } t = \ln(x), \int 2 t e^{(t^2)} dt = e^{(t^2)} \right]$$

line := "PMMAT2|171776|Holasová, Pavla |zkIESF B-HPS FP [sem 2]
zadani pro, "Holasová, Pavla "; 171776

pomoci vhodne substitute vypoctete integral
 ` Int(cos(x)*ln(sin(x))+cos(x), x) = sin(x)*ln(sin(x)) `

$$\left[\int \cos(x) \ln(\sin(x)) + \cos(x) dx = \sin(x) \ln(\sin(x)), \text{ substitute: } t = \sin(x), \right. \\ \left. \int \ln(t) + 1 dt = t \ln(t) \right]$$

line := "PMMAT2|171762|Hurnířková, Tereza |zkIESF B-HPS FP [sem 2]
zadani pro, "Hurnířková, Tereza "; 171762

pomoci vhodne substitute vypoctete integral
 ` Int((cos(ln(x))*ln(x)-sin(ln(x)))/ln(x)^2/x, x) = sin(ln(x))/ln(x) `

$$\left[\int \frac{\cos(\ln(x)) \ln(x) - \sin(\ln(x))}{\ln(x)^2 x} dx = \frac{\sin(\ln(x))}{\ln(x)}, \text{ substitute: } t = \ln(x), \right. \\ \left. \int \frac{\cos(t)}{t} - \frac{\sin(t)}{t^2} dt = \frac{\sin(t)}{t} \right]$$

line := "PMMAT2|99517|Charvát, Ondřej |zkIESF B-HPS RRS [sem 2]'

zadani pro, "Charvát, Ondřej", 99517

pomoci vhodné substituce vypočítejte integrál

$$\int \cos(\sin(x)) \cos(x) dx = \sin(\sin(x))$$

$$\left[\int \cos(\sin(x)) \cos(x) dx = \sin(\sin(x)), \text{ substituce: } t = \sin(x), \right.$$

$$\left. \int \cos(t) dt = \sin(t) \right]$$

line := "PMMAT2|174783|Jakubcová, Simona |zk|ESF M-HPS HOSP\ sem 2]"

zadani pro, "Jakubcová, Simona", 174783

pomoci vhodné substituce vypočítejte integrál

$$\int 2(x^2+1) \cos(x^2+1) x dx = (x^2+1)^2 \sin(x^2+1)$$

$$\left[2 \int (x^2+1) (\cos(x^2+1) x^2 + \cos(x^2+1) + 2 \sin(x^2+1)) x dx = \right.$$

$$\left. (x^2+1)^2 \sin(x^2+1), \text{ substituce: } t = x^2+1, \right.$$

$$\left. \int \cos(t) t^2 + 2 \sin(t) t dt = \sin(t) t^2 \right]$$

line := "PMMAT2|73899|Jurček, Daniel |zk|ESF B-HPS VEK [sem 6]"

zadani pro, "Jurček, Daniel", 73899

pomoci vhodné substituce vypočítejte integrál

$$\int \sin(x) (\cos(\sin(x)) \sin(x) + 2 \sin(\sin(x))) \cos(x) dx = \sin(\sin(x)) \sin(x)^2$$

$$\left[\int \sin(x) (\cos(\sin(x)) \sin(x) + 2 \sin(\sin(x))) \cos(x) dx = \right.$$

$$\left. \sin(\sin(x)) \sin(x)^2, \text{ substituce: } t = \sin(x), \right.$$

$$\left. \int \cos(t) t^2 + 2 \sin(t) t dt = \sin(t) t^2 \right]$$

line := "PMMAT2|171933|Kamenská, Katarína |zk|ESF B-HPS FP [sem 2]"

zadani pro, "Kamenská, Katarína", 171933

pomoci vhodné substituce vypočítejte integrál

$$\int \frac{\cos(\ln(x)) \ln(x) + \sin(\ln(x))}{x} dx = \sin(\ln(x)) \ln(x)$$

$$\left[\int \frac{\cos(\ln(x)) \ln(x) + \sin(\ln(x))}{x} dx = \sin(\ln(x)) \ln(x), \text{ substituce: } \right.$$

$$\left. t = \ln(x), \int \cos(t) t + \sin(t) dt = \sin(t) t \right]$$

line := "PMMAT2|170527|Kantor, Ondřej |zk|ESF B-HPS FP [sem 2]"

zadani pro, "Kantor, Ondřej", 170527

pomoci vhodné substituce vypočítejte integrál

`2*Int(x/(x^4+2*x^2+2),x) = arctan(x^2+1)`

$$\left[2 \int \frac{x}{x^4 + 2x^2 + 2} dx = \arctan(x^2 + 1), \text{ substitute: } t = x^2 + 1, \quad \int \frac{1}{t^2 + 1} dt = \arctan(t) \right]$$

line :=

"PMMAT2|174836|Kapoun, Vítizslav |zk|ESF M-HPS VEK [sem 2]

zadani pro, "Kapoun, Vítizslav ", 174836

pomoci vhodne substitute vypoctete integral

`4*Int((x^2+1)*x/(x^8+4*x^6+6*x^4+4*x^2+2),x) = arctan(x^4+2*x^2+1)`

$$\left[4 \int \frac{(x^2 + 1)x}{x^8 + 4x^6 + 6x^4 + 4x^2 + 2} dx = \arctan(x^4 + 2x^2 + 1), \text{ substitute: } \right. \\ \left. t = x^2 + 1, \int \frac{2t}{t^4 + 1} dt = \arctan(t^2) \right]$$

line :=

"PMMAT2|174675|Kedroò, Milan |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Kedroò, Milan ", 174675

pomoci vhodne substitute vypoctete integral

`2*Int(cos(x^2-1)/sin(x^2-1)*x,x) = ln(sin((x-1)*(x+1)))`

$$\left[2 \int \frac{\cos(x^2 - 1)x}{\sin(x^2 - 1)} dx = \ln(\sin((x - 1)(x + 1))), \text{ substitute: } t = x^2 - 1, \right. \\ \left. \int \frac{\cos(t)}{\sin(t)} dt = \ln(\sin(t)) \right]$$

line := "PMMAT2|191617|Klimková, Jana |zk|ESF B-HPS FP [sem 2]

zadani pro, "Klimková, Jana ", 191617

pomoci vhodne substitute vypoctete integral

`2*Int(cos(x^2-1)/sin(x^2-1)*x,x) = ln(sin((x-1)*(x+1)))`

$$\left[2 \int \frac{\cos(x^2 - 1)x}{\sin(x^2 - 1)} dx = \ln(\sin((x - 1)(x + 1))), \text{ substitute: } t = x^2 - 1, \right. \\ \left. \int \frac{\cos(t)}{\sin(t)} dt = \ln(\sin(t)) \right]$$

line :=

"PMMAT2|174818|Kopr, Eduard |zk|ESF M-HPS HOSP [sem 2]

zadani pro, "Kopr, Eduard ", 174818

pomoci vhodne substitute vypoctete integral

$$4 \int (x^2+1) e^{(x^2+1)^2} x dx = e^{(x^2+1)^2} \quad \int 2t e^{t^2} dt = e^{t^2}$$

line :=

"PMMAT2|174678|Kofèková, Irena |zklESF M-EKM POH [sem 2]

zadani pro, "Kofèková, Irena ", 174678

pomoci vhodne substitute vypoctete integral

$$-\int \frac{\sin(\ln(x))}{x} dx = \cos(\ln(x)) \quad \int -\sin(t) dt = \cos(t)$$

line :=

"PMMAT2|174797|Kozàèková, Barbora |zklESF M-HPS RRS [sem 2]

zadani pro, "Kozàèková, Barbora ", 174797

pomoci vhodne substitute vypoctete integral

$$2 \int \frac{1}{\ln(x)x} dx = 2 \ln(\ln(x)) \quad \int \frac{2}{t} dt = 2 \ln(t)$$

line := "PMMAT2| 78782|Kozel, Petr |zklESF B-HPS RRS [sem 4]

zadani pro, "Kozel, Petr ", 78782

pomoci vhodne substitute vypoctete integral

$$-\int \frac{1}{(\ln(x+1)-1)^2 (x+1)} dx = \frac{1}{\ln(x+1)-1} \quad \int -\frac{1}{(t-1)^2} dt = \frac{1}{t-1}$$

line := "PMMAT2| 99730|Krìková, Marie |zklESF B-HPS NH [sem 2]

zadani pro, "Krìková, Marie ", 99730

pomoci vhodne substitute vypoctete integral

$$\int \frac{\ln(x)-1}{\ln(x)^2} dx = \frac{x}{\ln(x)} \quad \int \frac{e^t}{t} - \frac{e^t}{t^2} dt = \frac{e^t}{t}$$

line := "PMMAT2|173143|Kuèerová, Petra |zklESF M-HPS FP [sem 2]

zadani pro, "Kuèerová, Petra", 173143

pomoci vhodne substituce vypoctete integral

$$\text{`Int}(\sin(x) * (\cos(\sin(x)) * \sin(x) + 2 * \sin(\sin(x))) * \cos(x), x) = \sin(\sin(x)) * \sin(x)^2`$$

$$\left[\int \sin(x) (\cos(\sin(x)) \sin(x) + 2 \sin(\sin(x))) \cos(x) dx = \sin(\sin(x)) \sin(x)^2, \text{ substituce: } t = \sin(x), \int \cos(t) t^2 + 2 \sin(t) t dt = \sin(t) t^2 \right]$$

line :=

"PMMAT2|172059|Kudlová, Monika |zk|ESF B-EKM POH [sem 2]

zadani pro, "Kudlová, Monika", 172059

pomoci vhodne substituce vypoctete integral

$$\text{`2*Int}(\exp(x^2+1) * x^3 / (x^2+1)^2, x) = \exp(x^2+1) / (x^2+1)`$$

$$\left[2 \int \frac{e^{(x^2+1)} x^3}{(x^2+1)^2} dx = \frac{e^{(x^2+1)}}{x^2+1}, \text{ substituce: } t = x^2 + 1, \int \frac{e^t}{t} - \frac{e^t}{t^2} dt = \frac{e^t}{t} \right]$$

line :=

"PMMAT2|171779|Kusák, Roman |zk|ESF B-EKM POH [sem 2]

zadani pro, "Kusák, Roman", 171779

pomoci vhodne substituce vypoctete integral

$$\text{`Int}((\ln(\ln(x)) + 1) / x, x) = \ln(x) * \ln(\ln(x))`$$

$$\left[\int \frac{\ln(\ln(x)) + 1}{x} dx = \ln(x) \ln(\ln(x)), \text{ substituce: } t = \ln(x), \int \ln(t) + 1 dt = t \ln(t) \right]$$

line := "PMMAT2|172078|Lízalová, Eva |zk|ESF B-HPS RRS [sem 2]

zadani pro, "Lízalová, Eva", 172078

pomoci vhodne substituce vypoctete integral

$$\text{`2*Int}(\sin(x) * \cos(x) / (2 - 2 * \cos(x)^2 + \cos(x)^4), x) = \arctan(\sin(x)^2)`$$

$$\left[2 \int \frac{\sin(x) \cos(x)}{2 - 2 \cos(x)^2 + \cos(x)^4} dx = \arctan(\sin(x)^2), \text{ substituce: } t = \sin(x), \int \frac{2t}{t^4 + 1} dt = \arctan(t^2) \right]$$

line := "PMMAT2|174665|Lorenc, Jan |zk|ESF M-EKM POH [sem 2]

zadani pro, "Lorenc, Jan", 174665

pomoci vhodne substitute vypoctete integral

$$\int 2 \frac{(x^2+1) \cdot (x^2+1+2 \arctan(x^2+1) \cdot x^4 + 4 \arctan(x^2+1) \cdot x^2 + 4 \arctan(x^2+1)) \cdot x}{(x^4+2x^2+2)} dx = (x^2+1)^2 \arctan(x^2+1)$$

$$\left[2 \int (x^2+1) \cdot (x^2+1+2 \arctan(x^2+1) \cdot x^4 + 4 \arctan(x^2+1) \cdot x^2 + 4 \arctan(x^2+1)) \cdot x / (x^4+2x^2+2) dx = (x^2+1)^2 \arctan(x^2+1), \text{ substitute: } t = x^2+1, \int \frac{t^2}{t^2+1} + 2t \arctan(t) dt = \arctan(t) t^2 \right]$$

line := "PMMAT2|99655|Malík, David |zk|ESF M-EKM POH [sem 6]

zadani pro, "Malík, David |99655

pomoci vhodne substitute vypoctete integral

$$\int 2 \frac{\exp(x^2+1) \cdot (x^4+4x^2+3) \cdot x}{\exp(x^2+1) \cdot (x^4+2x^2+1)} dx = e^{(x^2+1)} (x^4+2x^2+1)$$
$$\left[2 \int e^{(x^2+1)} (x^4+4x^2+3) x dx = e^{(x^2+1)} (x^4+2x^2+1), \text{ substitute: } t = x^2+1, \int e^t t^2 + 2 e^t t dt = e^t t^2 \right]$$

line := "PMMAT2|137128|Markusík, David |zk|ESF M-HPS FP [sem 4]

zadani pro, "Markusík, David |137128

pomoci vhodne substitute vypoctete integral

$$\int - \frac{(-1+2 \ln(\sin(x))) \cos(x)}{\sin(x)^3} dx = \frac{\ln(\sin(x))}{\sin(x)^2}$$
$$\left[- \int \frac{(-1+2 \ln(\sin(x))) \cos(x)}{\sin(x)^3} dx = \frac{\ln(\sin(x))}{\sin(x)^2}, \text{ substitute: } t = \sin(x), \int \frac{1}{t^3} - \frac{2 \ln(t)}{t^3} dt = \frac{\ln(t)}{t^2} \right]$$

line := "PMMAT2|100118|Miklas, David |zk|ESF B-HPS FP [sem 6]

zadani pro, "Miklas, David |100118

pomoci vhodne substitute vypoctete integral

$$\int \frac{1}{\sin(x)^2} \cos(x) dx = \frac{1}{\sin(x)}$$
$$\left[- \int \frac{\cos(x)}{\sin(x)^2} dx = \frac{1}{\sin(x)}, \text{ substitute: } t = \sin(x), \int - \frac{1}{t^2} dt = \frac{1}{t} \right]$$

line :=

"PMMAT2|137816|Mlynka, Jaroslav |zk|ESF M-HPS HOSP [sem 4]

zadani pro, "Mlynka, Jaroslav |137816

pomoci vhodne substitute vypoctete integral

$$\text{\`{-Int((-1+2*ln(sin(x)))*cos(x)/sin(x)^3,x) = ln(sin(x))/sin(x)^2\`}$$

$$\left[-\int \frac{(-1+2\ln(\sin(x)))\cos(x)}{\sin(x)^3} dx = \frac{\ln(\sin(x))}{\sin(x)^2}, \text{ substitute: , } t = \sin(x), \right. \\ \left. \int \frac{1}{t^3} - \frac{2\ln(t)}{t^3} dt = \frac{\ln(t)}{t^2} \right]$$

line :=

"PMMAT2|107842|Navrkal, Ondøej |zkIESF M-EKM POH [sem 2]

zadani pro, "Navrkal, Ondøej ", 107842

pomoci vhodne substitute vypoctete integral

$$\text{\`{4*Int((x^2+1)*x/(x^8+4*x^6+6*x^4+4*x^2+2),x) = arctan(x^4+2*x^2+1)\`}$$

$$\left[4 \int \frac{(x^2+1)x}{x^8+4x^6+6x^4+4x^2+2} dx = \arctan(x^4+2x^2+1), \text{ substitute: ,} \right. \\ \left. t = x^2+1, \int \frac{2t}{t^4+1} dt = \arctan(t^2) \right]$$

line :=

"PMMAT2|174963|Novotný, Michal |zkIESF M-HPS RRS [sem 2]

zadani pro, "Novotný, Michal ", 174963

pomoci vhodne substitute vypoctete integral

$$\text{\`{2*Int(1/(x^2+1)*x,x) = ln(x^2+1)\`}$$

$$\left[2 \int \frac{x}{x^2+1} dx = \ln(x^2+1), \text{ substitute: , } t = x^2+1, \int \frac{1}{t} dt = \ln(t) \right]$$

line :=

"PMMAT2|171864|Odehnal, Martin |zkIESF B-EKM POH [sem 2]

zadani pro, "Odehnal, Martin ", 171864

pomoci vhodne substitute vypoctete integral

$$\text{\`{Int(1/ln(x)/x,x) = ln(ln(x))\`}$$

$$\left[\int \frac{1}{\ln(x)x} dx = \ln(\ln(x)), \text{ substitute: , } t = \ln(x), \int \frac{1}{t} dt = \ln(t) \right]$$

line :=

"PMMAT2|174734|Ohnheisrová, Iveta |zkIESF M-HPS HOSP [sem 2]

zadani pro, "Ohnheisrová, Iveta ", 174734

pomoci vhodne substitute vypoctete integral

$$\text{\`{2*Int(exp(x^2+1)*(x^2-1)*x/(x^2+1)^3,x) = exp(x^2+1)/(x^2+1)^2\`}$$

$$\left[2 \int \frac{e^{(x^2+1)} (x^2-1)x}{(x^2+1)^3} dx = \frac{e^{(x^2+1)}}{(x^2+1)^2}, \text{ substitute: } t = x^2 + 1, \quad \int \frac{e^t}{t^2} - \frac{2e^t}{t^3} dt = \frac{e^t}{t^2} \right]$$

line := "PMMAT2|172037|Petroviè, Martin |zklESF B-EKM POH [sem 2]

zadani pro, "Petroviè, Martin |", 172037

pomoci vhodne substitute vypoctete integral

``Int((ln(ln(x))+1)/x,x) = ln(x)*ln(ln(x))``

$$\left[\int \frac{\ln(\ln(x)) + 1}{x} dx = \ln(x) \ln(\ln(x)), \text{ substitute: } t = \ln(x), \right. \\ \left. \int \ln(t) + 1 dt = t \ln(t) \right]$$

line := "PMMAT2|99620|Petøík, Martin |zklESF M-HPS FP [sem 4]

zadani pro, "Petøík, Martin |", 99620

pomoci vhodne substitute vypoctete integral

``2*Int((cos(x^2+1)*x^2+cos(x^2+1)-2*sin(x^2+1))*x/(x^2+1)^3,x) = sin(x^2+1)/(x^2+1)^2``

$$\left[2 \int \frac{(\cos(x^2+1)x^2 + \cos(x^2+1) - 2\sin(x^2+1))x}{(x^2+1)^3} dx = \frac{\sin(x^2+1)}{(x^2+1)^2}, \right. \\ \left. \text{ substitute: } t = x^2 + 1, \int \frac{\cos(t)}{t^2} - \frac{2\sin(t)}{t^3} dt = \frac{\sin(t)}{t^2} \right]$$

line :=

"PMMAT2|171888|Podhradský, Juraj |zklESF B-EKM POH [sem 2]

zadani pro, "Podhradský, Juraj |", 171888

pomoci vhodne substitute vypoctete integral

``2*Int(sin(x)*exp(sin(x)^2)*cos(x),x) = exp(sin(x)^2)``

$$\left[2 \int \sin(x) e^{(\sin(x)^2)} \cos(x) dx = e^{(\sin(x)^2)}, \text{ substitute: } t = \sin(x), \right. \\ \left. \int 2t e^{(t^2)} dt = e^{(t^2)} \right]$$

line :=

"PMMAT2|170290|Pokorný, František |zklESF M-EKM POH [sem 2]

zadani pro, "Pokorný, František |", 170290

pomoci vhodne substitute vypoctete integral

``Int(cos(sin(x))*cos(x),x) = sin(sin(x))``

$$\left[\int \cos(\sin(x)) \cos(x) dx = \sin(\sin(x)), \text{ substitute: } t = \sin(x), \right. \\ \left. \int \cos(t) dt = \sin(t) \right]$$

line := "PMMAT2|134691|Potočková, Zuzana |zkIESF M-HPS FP [sem 2]

zadani pro, "Potočková, Zuzana "; 134691

pomoci vhodne substitute vypoctete integral

``Int(cos(sin(x))*cos(x),x) = sin(sin(x))``

$$\left[\int \cos(\sin(x)) \cos(x) dx = \sin(\sin(x)), \text{ substitute: } t = \sin(x), \right. \\ \left. \int \cos(t) dt = \sin(t) \right]$$

line := "PMMAT2|174793|Primová, Andrea |zkIESF M-EKT EKON [sem 2]"

zadani pro, "Primová, Andrea "; 174793

pomoci vhodne substitute vypoctete integral

``-2*Int((-1+ln(x^2+1))*x/(x^2+1)^2,x) = ln(x^2+1)/(x^2+1)``

$$\left[-2 \int \frac{(-1 + \ln(x^2 + 1))x}{(x^2 + 1)^2} dx = \frac{\ln(x^2 + 1)}{x^2 + 1}, \text{ substitute: } t = x^2 + 1, \quad \int \frac{1}{t^2} - \frac{\ln(t)}{t^2} dt = \frac{\ln(t)}{t} \right]$$

line :=

"PMMAT2|171836|Prodílalová, Linda |zkIESF B-HPS VEK [sem 2]

zadani pro, "Prodílalová, Linda "; 171836

pomoci vhodne substitute vypoctete integral

``Int(1/(arctan(x)^2+1)/(x^2+1),x) = arctan(arctan(x))``

$$\left[\int \frac{1}{(\arctan(x)^2 + 1)(x^2 + 1)} dx = \arctan(\arctan(x)), \text{ substitute: } \right. \\ \left. t = \arctan(x), \int \frac{1}{t^2 + 1} dt = \arctan(t) \right]$$

line := "PMMAT2|171818|Rojko, Andrej |zkIESF B-EKM POH [sem 2]

zadani pro, "Rojko, Andrej "; 171818

pomoci vhodne substitute vypoctete integral

``2*Int((arctan(x^2+1)*x^4+2*arctan(x^2+1)*x^2+2*arctan(x^2+1)+x^2+1)*x/(x^4+2*x^2+2),x) = (x^2+1)*arctan(x^2+1)``

$$\left[2 \int \frac{(\arctan(x^2 + 1) x^4 + 2 \arctan(x^2 + 1) x^2 + 2 \arctan(x^2 + 1) + x^2 + 1) x}{x^4 + 2 x^2 + 2} dx = (x^2 + 1) \arctan(x^2 + 1), \text{ substitute: } t = x^2 + 1, \right. \\ \left. \int \arctan(t) + \frac{t}{t^2 + 1} dt = t \arctan(t) \right]$$

line := "PMMAT2|171756|Ryèek, Matou¹ lzk|ESF B-HPS VEK [sem 2]

zadani pro, "Ryèek, Matou¹ ", 171756

pomoci vhodne substitute vypoctete integral

`-Int(1/sin(x)^2*cos(x), x) = 1/sin(x)`

$$\left[- \int \frac{\cos(x)}{\sin(x)^2} dx = \frac{1}{\sin(x)}, \text{ substitute: } t = \sin(x), \int -\frac{1}{t^2} dt = \frac{1}{t} \right]$$

line := "PMMAT2|174809|Slezák, Martin lzk|ESF M-EKM POH [sem 2]

zadani pro, "Slezák, Martin ", 174809

pomoci vhodne substitute vypoctete integral

`2*Int(exp(x^2+1)*x, x) = exp(x^2+1)`

$$\left[2 \int e^{(x^2+1)} x dx = e^{(x^2+1)}, \text{ substitute: } t = x^2 + 1, \int e^t dt = e^t \right]$$

line := "PMMAT2|171885|Slezáková, Petra lzk|ESF B-HPS VEK [sem 2]

zadani pro, "Slezáková, Petra ", 171885

pomoci vhodne substitute vypoctete integral

`2*Int(exp(x^2+1)*x, x) = exp(x^2+1)`

$$\left[2 \int e^{(x^2+1)} x dx = e^{(x^2+1)}, \text{ substitute: } t = x^2 + 1, \int e^t dt = e^t \right]$$

line := "PMMAT2|171931|Staroð, Richard lzk|ESF B-HPS FP [sem 2]

zadani pro, "Staroð, Richard ", 171931

pomoci vhodne substitute vypoctete integral

`Int((cos(sin(x))*sin(x)-sin(sin(x)))*cos(x)/sin(x)^2, x) = sin(sin(x))/sin(x)`

$$\left[\int \frac{(\cos(\sin(x)) \sin(x) - \sin(\sin(x))) \cos(x)}{\sin(x)^2} dx = \frac{\sin(\sin(x))}{\sin(x)}, \text{ substitute: } \right. \\ \left. t = \sin(x), \int \frac{\cos(t)}{t} - \frac{\sin(t)}{t^2} dt = \frac{\sin(t)}{t} \right]$$

line := "PMMAT2|172095|Steiger, Zdenìk lzk|ESF B-EKM POH [sem 2]

zadani pro, "Steiger, Zdenìk ", 172095

pomoci vhodne substituce vypoctete integral

``2*Int(cos(x^2-1)/sin(x^2-1)*x,x) = ln(sin((x-1)*(x+1)))``

$$\left[2 \int \frac{\cos(x^2-1)x}{\sin(x^2-1)} dx = \ln(\sin((x-1)(x+1))), \text{ substituce: } t = x^2 - 1, \right. \\ \left. \int \frac{\cos(t)}{\sin(t)} dt = \ln(\sin(t)) \right]$$

`line := "PMMAT2|174905|Stratil, Martin |zk|ESF M-EKT EKON [sem 2]`

`zadani pro, "Stratil, Martin ", 174905`

pomoci vhodne substituce vypoctete integral

``2*Int(exp(x^2+1)*(x^4+4*x^2+3)*x,x) = exp(x^2+1)*(x^4+2*x^2+1)``

$$\left[2 \int e^{(x^2+1)} (x^4 + 4x^2 + 3)x dx = e^{(x^2+1)} (x^4 + 2x^2 + 1), \text{ substituce: } \right. \\ \left. t = x^2 + 1, \int e^t t^2 + 2 e^t t dt = e^t t^2 \right]$$

`line := "PMMAT2|174905|Stratil, Martin |zk|ESF M-HPS HOSP [sem 2]`

`zadani pro, "Stratil, Martin ", 174905`

pomoci vhodne substituce vypoctete integral

``2*Int(exp(x^2+1)*(x^4+4*x^2+3)*x,x) = exp(x^2+1)*(x^4+2*x^2+1)``

$$\left[2 \int e^{(x^2+1)} (x^4 + 4x^2 + 3)x dx = e^{(x^2+1)} (x^4 + 2x^2 + 1), \text{ substituce: } \right. \\ \left. t = x^2 + 1, \int e^t t^2 + 2 e^t t dt = e^t t^2 \right]$$

`line :=`

`"PMMAT2|172083|Svobodová, Veronika |zk|ESF M-HPS FP [sem 2]"`

`zadani pro, "Svobodová, Veronika ", 172083`

pomoci vhodne substituce vypoctete integral

``-Int((-ln(x)+2*arctan(ln(x))*ln(x)^2+2*arctan(ln(x)))/(ln(x)^2+1)/ln(x)^3/x,x) = arctan(ln(x))/ln(x)^2``

$$\left[- \int \frac{-\ln(x) + 2 \arctan(\ln(x)) \ln(x)^2 + 2 \arctan(\ln(x))}{(\ln(x)^2 + 1) \ln(x)^3 x} dx = \frac{\arctan(\ln(x))}{\ln(x)^2}, \right. \\ \left. \text{substituce: } t = \ln(x), \int \frac{1}{(t^2 + 1)t^2} - \frac{2 \arctan(t)}{t^3} dt = \frac{\arctan(t)}{t^2} \right]$$

`line := "PMMAT2|174671|©afáøová, Monika |zk|ESF M-HPS FP [sem 2]`

`zadani pro, "©afáøová, Monika ", 174671`

pomoci vhodne substituce vypoctete integral

``ln(2)*Int(2^(x^2+1)*x,x) = 2^(x^2)``

$$\left[\ln(2) \int 2^{(x^2+1)} x dx = 2^{(x^2)}, \text{ substituce: } t = x^2, \int 2^t \ln(2) dt = 2^t \right]$$

line :=

"PMMAT2|99492|©amlová, Markéta |zkIESF M-HPS RRS [sem 6]

zadani pro, "©amlová, Markéta ", 99492

pomoci vhodne substituce vypoctete integral

``2*Int((arctan(x^2+1)*x^4+2*arctan(x^2+1)*x^2+2*arctan(x^2+1)+x^2+1)*x/(x^4+2*x^2+2),x) = (x^2+1)*arctan(x^2+1)``

$$\left[2 \int \frac{(\arctan(x^2+1)x^4 + 2\arctan(x^2+1)x^2 + 2\arctan(x^2+1) + x^2 + 1)x}{x^4 + 2x^2 + 2} dx = (x^2+1)\arctan(x^2+1), \text{ substituce: } t = x^2+1, \int \arctan(t) + \frac{t}{t^2+1} dt = t\arctan(t) \right]$$

line :=

"PMMAT2|172194|©auerová, Ludmila |zkIESF B-EKM POH [sem 2]

zadani pro, "©auerová, Ludmila ", 172194

pomoci vhodne substituce vypoctete integral

``2*Int((cos(x^2+1)*x^2+cos(x^2+1)+sin(x^2+1))*x,x) = (x^2+1)*sin(x^2+1)``

$$\left[2 \int (\cos(x^2+1)x^2 + \cos(x^2+1) + \sin(x^2+1))x dx = (x^2+1)\sin(x^2+1), \text{ substituce: } t = x^2+1, \int \cos(t)t + \sin(t) dt = \sin(t)t \right]$$

line := "PMMAT2|172149|©erý, Martin |zkIESF B-HPS FP [sem 2]

zadani pro, "©erý, Martin ", 172149

pomoci vhodne substituce vypoctete integral

``2*Int(ln(x)*exp(ln(x)^2)/x,x) = exp(ln(x)^2)``

$$\left[2 \int \frac{\ln(x) e^{(\ln(x)^2)}}{x} dx = e^{(\ln(x)^2)}, \text{ substituce: } t = \ln(x), \int 2t e^{(t^2)} dt = e^{(t^2)} \right]$$

line :=

"PMMAT2|170179|©mířová, Lucie |zkIESF M-EKM POH [sem 2]

zadani pro, "©mířová, Lucie ", 170179

pomoci vhodne substituce vypoctete integral

``-Int((sin(x)-2*arctan(sin(x))+arctan(sin(x))*cos(x)^2)*cos(x)/sin(x)^2/(-2+cos(x)^2),x) = 1/sin(x)*arctan(sin(x))``

$$\left[- \int \frac{(\sin(x) - 2 \arctan(\sin(x)) + \arctan(\sin(x)) \cos(x)^2) \cos(x)}{\sin(x)^2 (-2 + \cos(x)^2)} dx = \frac{\arctan(\sin(x))}{\sin(x)}, \text{ substitute: } t = \sin(x), \int \frac{1}{(t^2 + 1)t} - \frac{\arctan(t)}{t^2} dt = \frac{\arctan(t)}{t} \right]$$

line := "PMMAT2|171979|©»astná, Pavlína |zk|ESF B-HPS VEK [sem 2]

zadani pro, "©»astná, Pavlína ", 171979

pomoci vhodne substitute vypoctete integral

`Int((ln(x)-2)/ln(x)^3, x) = x/ln(x)^2`

$$\left[\int \frac{\ln(x) - 2}{\ln(x)^3} dx = \frac{x}{\ln(x)^2}, \text{ substitute: } t = \ln(x), \int \frac{e^t}{t^2} - \frac{2e^t}{t^3} dt = \frac{e^t}{t^2} \right]$$

line :=

"PMMAT2|106163|©várová, Jana |zk|ESF M-EKT EKON [sem 2]

zadani pro, "©várová, Jana ", 106163

pomoci vhodne substitute vypoctete integral

`2*Int(1/(x^2+1)*x, x) = ln(x^2+1)`

$$\left[2 \int \frac{x}{x^2 + 1} dx = \ln(x^2 + 1), \text{ substitute: } t = x^2 + 1, \int \frac{1}{t} dt = \ln(t) \right]$$

line :=

"PMMAT2|172008|Tomková, Hana |zk|ESF B-HPS VEK [sem 2]

zadani pro, "Tomková, Hana ", 172008

pomoci vhodne substitute vypoctete integral

`Int(1/(arctan(x)^2+1)/(x^2+1), x) = arctan(arctan(x))`

$$\left[\int \frac{1}{(\arctan(x)^2 + 1)(x^2 + 1)} dx = \arctan(\arctan(x)), \text{ substitute: } t = \arctan(x), \int \frac{1}{t^2 + 1} dt = \arctan(t) \right]$$

line :=

"PMMAT2|171930|Turcsányi, Richard |zk|ESF B-EKM POH [sem 2]

zadani pro, "Turcsányi, Richard ", 171930

pomoci vhodne substitute vypoctete integral

`Int((cos(sin(x))*sin(x)+sin(sin(x)))*cos(x), x) = sin(x)*sin(sin(x))`

$$\left[\int (\cos(\sin(x)) \sin(x) + \sin(\sin(x))) \cos(x) dx = \sin(x) \sin(\sin(x)), \right.$$

$$\left. \text{substitute: , } t = \sin(x), \int \cos(t) t + \sin(t) dt = \sin(t) t \right]$$

line := "PMMAT2|171975|Turková, Lenka |zklESF B-HPS RRS [sem 2]

zadani pro, "Turková, Lenka "; 171975

pomoci vhodne substitute vypoctete integral

$$\text{\`Int}(\exp(\sin(x)) * \sin(x) * (\sin(x) + 2) * \cos(x), x) = \exp(\sin(x)) * \sin(x) ^2 \text{\`}$$

$$\left[\int e^{\sin(x)} \sin(x) (\sin(x) + 2) \cos(x) dx = e^{\sin(x)} \sin(x)^2, \text{ substitute: ,} \right.$$

$$\left. t = \sin(x), \int e^t t^2 + 2 e^t t dt = e^t t^2 \right]$$

line := "PMMAT2|65353|Valentová, Jitka |zklESF M-HPS VEK [sem 4]

zadani pro, "Valentová, Jitka "; 65353

pomoci vhodne substitute vypoctete integral

$$\text{\`Int}(\sin(x) * (-\sin(x) - 4 * \arctan(\sin(x)) + 2 * \arctan(\sin(x)) * \cos(x)^2) * \cos(x) / (-2 + \cos(x)^2), x) = \arctan(\sin(x)) * \sin(x) ^2 \text{\`}$$

$$\left[\int \frac{\sin(x) (-\sin(x) - 4 \arctan(\sin(x)) + 2 \arctan(\sin(x)) \cos(x)^2) \cos(x)}{-2 + \cos(x)^2} dx \right.$$

$$\left. x = \arctan(\sin(x)) \sin(x)^2, \text{ substitute: , } t = \sin(x), \right.$$

$$\left. \int \frac{t^2}{t^2 + 1} + 2 t \arctan(t) dt = \arctan(t) t^2 \right]$$

line :=

"PMMAT2|171857|Valentová, Lenka |zklESF B-EKM POH [sem 2]

zadani pro, "Valentová, Lenka "; 171857

pomoci vhodne substitute vypoctete integral

$$\text{\`Int}((\cos(\ln(x)) * \ln(x) - 2 * \sin(\ln(x))) / \ln(x) ^3 / x, x) = \sin(\ln(x)) / \ln(x) ^2 \text{\`}$$

$$\left[\int \frac{\cos(\ln(x)) \ln(x) - 2 \sin(\ln(x))}{\ln(x)^3 x} dx = \frac{\sin(\ln(x))}{\ln(x)^2}, \text{ substitute: , } t = \ln(x), \right.$$

$$\left. \int \frac{\cos(t)}{t^2} - \frac{2 \sin(t)}{t^3} dt = \frac{\sin(t)}{t^2} \right]$$

line := "PMMAT2|174790|Váða, Vladislav |zklESF M-HPS FP [sem 2]

zadani pro, "Váða, Vladislav "; 174790

pomoci vhodne substitute vypoctete integral

$$\text{\`-Int}((-1 + \ln(\ln(x))) / \ln(x) ^2 / x, x) = \ln(\ln(x)) / \ln(x) \text{\`}$$

$$\left[-\int \frac{-1 + \ln(\ln(x))}{\ln(x)^2 x} dx = \frac{\ln(\ln(x))}{\ln(x)}, \text{ substitute: } t = \ln(x), \quad \int \frac{1}{t^2} - \frac{\ln(t)}{t^2} dt = \frac{\ln(t)}{t} \right]$$

line :=

"PMMAT2|174973|Vdovec, Milan |zkIESF M-EKM POH [sem 2]

zadani pro, "Vdovec, Milan ", 174973

pomoci vhodne substitute vypoctete integral

$$\int (x^2 + 1 + 2 \ln(x^2 + 1)) x^2 dx = \frac{1}{4} x^4 \ln(x^2 + 1) + \frac{1}{2} x^2 \ln(x^2 + 1) - \frac{1}{2} x^2 + \frac{1}{4} x^2$$

$$\left[2 \int (x^2 + 1 + 2 \ln(x^2 + 1)) x dx = \right.$$

$$\left. x^4 \ln(x^2 + 1) + \ln(x^2 + 1) + 2 \ln(x^2 + 1) x^2 - 2, \text{ substitute: } t = x^2 + 1, \right.$$

$$\left. \int t + 2 t \ln(t) dt = t^2 \ln(t) \right]$$

line := "PMMAT2|106541|Vegrichtová, Marta |zkIESF M-HPS FP [sem 2]

zadani pro, "Vegrichtová, Marta ", 106541

pomoci vhodne substitute vypoctete integral

$$\int \frac{\arctan(\ln(x)) \ln(x)^2 + \arctan(\ln(x)) + \ln(x)}{(\ln(x)^2 + 1) x} dx = \ln(x) \arctan(\ln(x))$$

$$\left[\int \frac{\arctan(\ln(x)) \ln(x)^2 + \arctan(\ln(x)) + \ln(x)}{(\ln(x)^2 + 1) x} dx = \ln(x) \arctan(\ln(x)), \right.$$

$$\left. \text{ substitute: } t = \ln(x), \int \arctan(t) + \frac{t}{t^2 + 1} dt = t \arctan(t) \right]$$

line := "PMMAT2|171976|Virglová, Lucie |zkIESF B-EKM POH [sem 2]

zadani pro, "Virglová, Lucie ", 171976

pomoci vhodne substitute vypoctete integral

$$\int \frac{e^{\sin(x)} (\sin(x) - 2) \cos(x)}{\sin(x)^3} dx = \frac{e^{\sin(x)}}{\sin(x)^2}$$

$$\left[\int \frac{e^{\sin(x)} (\sin(x) - 2) \cos(x)}{\sin(x)^3} dx = \frac{e^{\sin(x)}}{\sin(x)^2}, \text{ substitute: } t = \sin(x), \quad \int \frac{e^t}{t^2} - \frac{2 e^t}{t^3} dt = \frac{e^t}{t^2} \right]$$

line := "PMMAT2|174214|Vojtíková, Ludmila |zkIESF M-EKM POH [sem 2]"

zadani pro, "Vojtíková, Ludmila ", 174214

pomoci vhodne substitute vypoctete integral

$$\int \ln(x) (\ln(x) + 2) dx = \frac{1}{2} \ln(x)^2 + 2x \ln(x) - x^2$$

$$\left[\int \ln(x) (\ln(x) + 2) dx = \ln(x)^2 x, \text{ substitute: } t = \ln(x), \right. \\ \left. \int e^t t^2 + 2 e^t t dt = e^t t^2 \right]$$

line := "PMMAT2|172170|Vravko, Matej |zk|ESF B-HPS RRS [sem 2]

zadani pro, "Vravko, Matej", 172170

pomoci vhodne substitute vypoctete integral

$$\text{`4*Int((x^2+1)*x/(x^8+4*x^6+6*x^4+4*x^2+2), x) = arctan(x^4+2*x^2+1)}`$$

$$\left[4 \int \frac{(x^2 + 1)x}{x^8 + 4x^6 + 6x^4 + 4x^2 + 2} dx = \arctan(x^4 + 2x^2 + 1), \text{ substitute: } \right. \\ \left. t = x^2 + 1, \int \frac{2t}{t^4 + 1} dt = \arctan(t^2) \right]$$

line := "PMMAT2|171839|Zlato¹, Michal |zk|ESF B-EKM POH [sem 2]

zadani pro, "Zlato¹, Michal", 171839

pomoci vhodne substitute vypoctete integral

$$\text{`Int(1/ln(x)/x, x) = ln(ln(x))}`$$

$$\left[\int \frac{1}{\ln(x)x} dx = \ln(\ln(x)), \text{ substitute: } t = \ln(x), \int \frac{1}{t} dt = \ln(t) \right]$$

line := "PMMAT2|174990|Zubatý, Adam |zk|ESF M-HPS FP [sem 2]

zadani pro, "Zubatý, Adam", 174990

pomoci vhodne substitute vypoctete integral

$$\text{`4*Int((x^2+1)*exp((x^2+1)^2)*x, x) = exp((x^2+1)^2)}`$$

$$\left[4 \int (x^2 + 1) e^{\left(\frac{x^2+1}{2}\right)^2} x dx = e^{\left(\frac{x^2+1}{2}\right)^2}, \text{ substitute: } t = x^2 + 1, \int 2t e^{(t^2)} dt = e^{(t^2)} \right]$$

line := 0