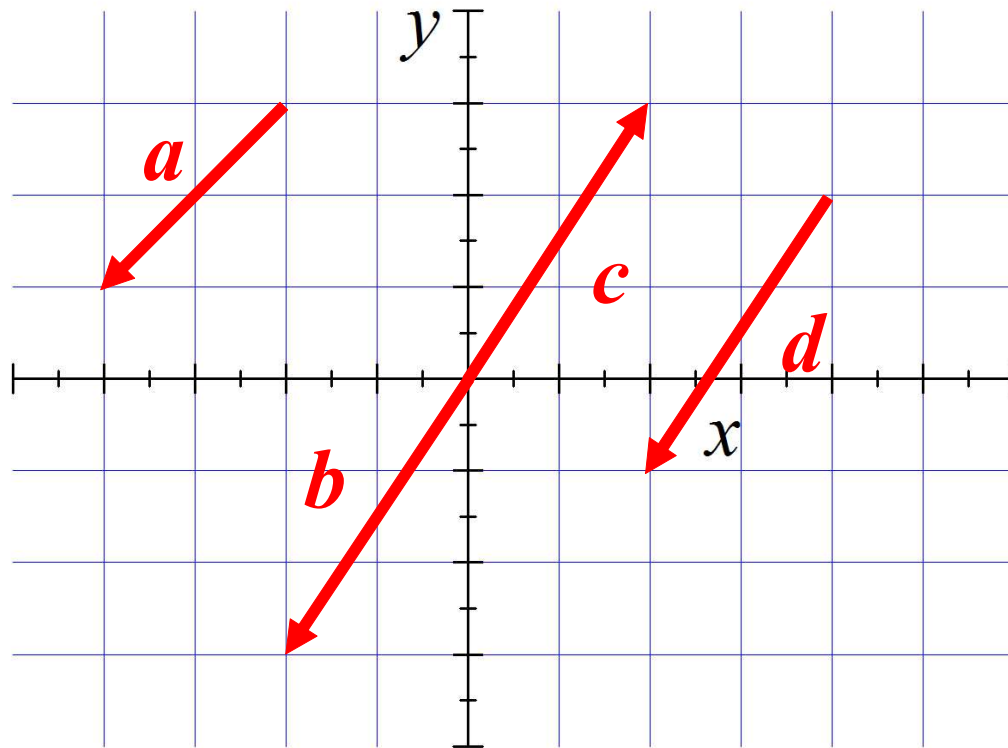


1A Které vektory jsou na obrázku shodné?



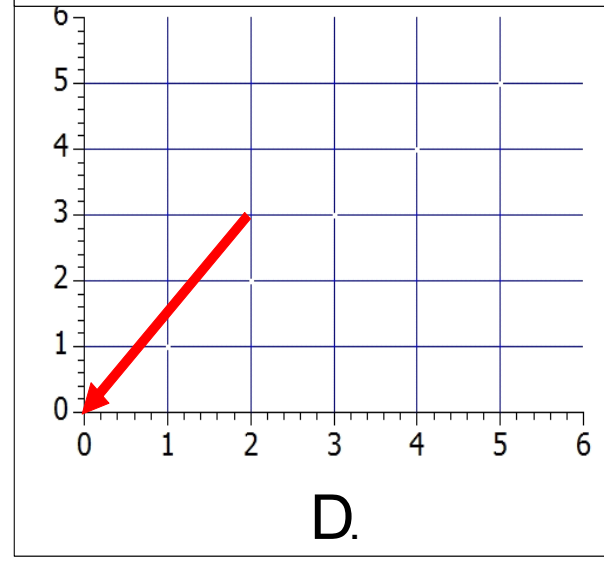
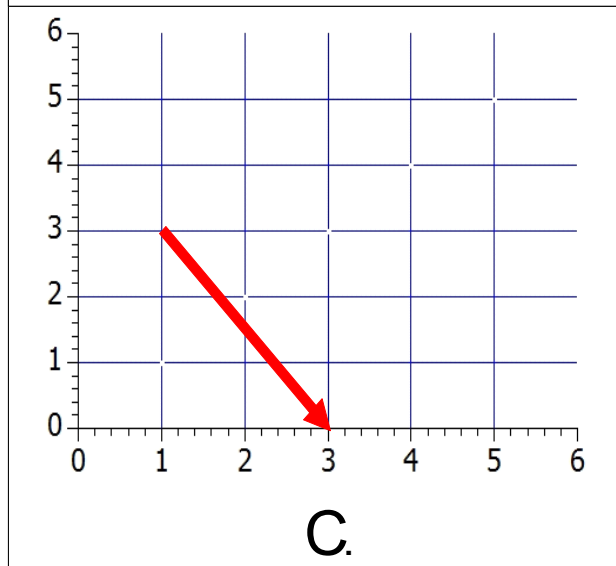
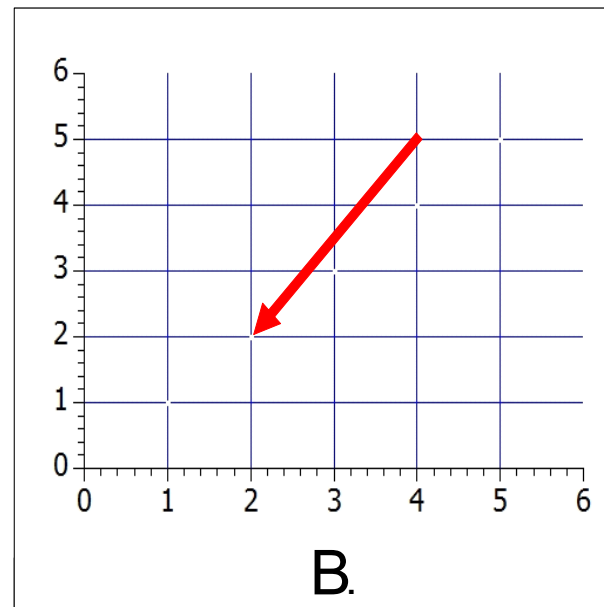
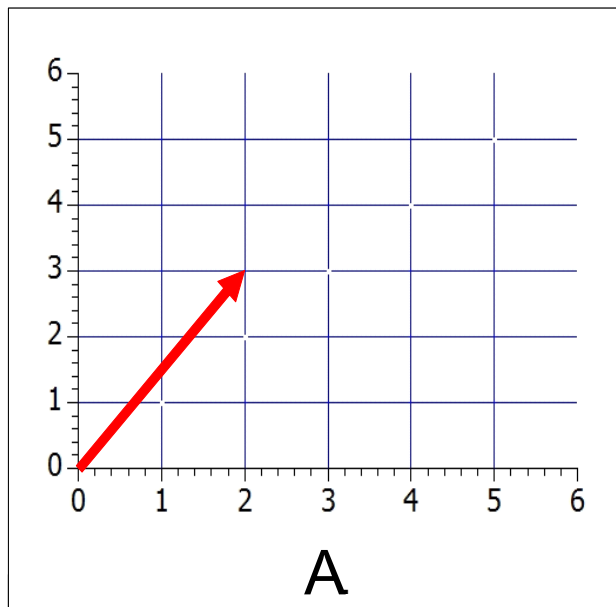
A. $a a b$

B. $b a c$

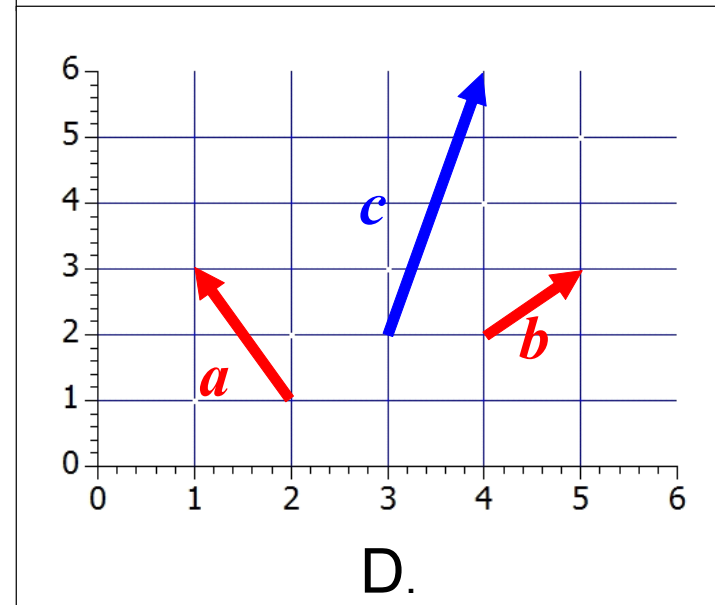
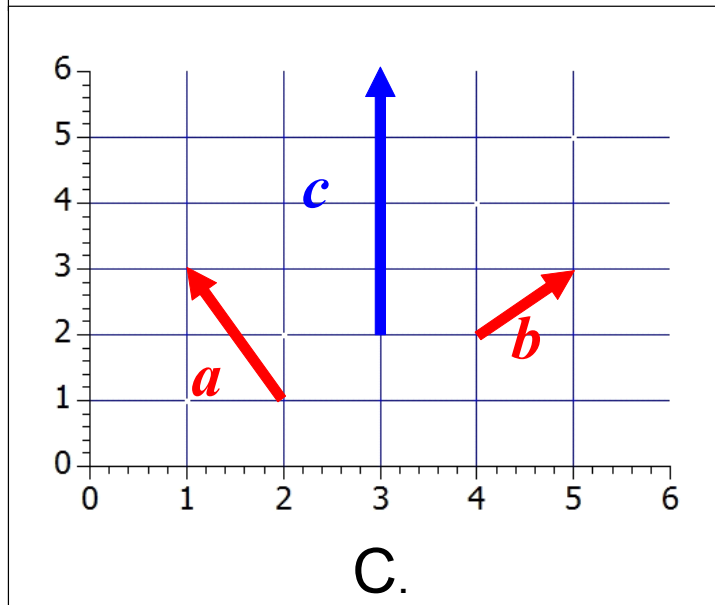
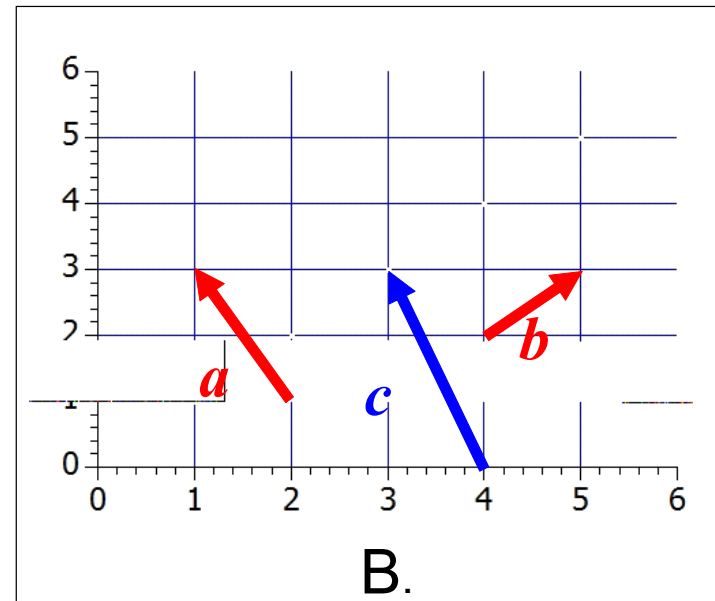
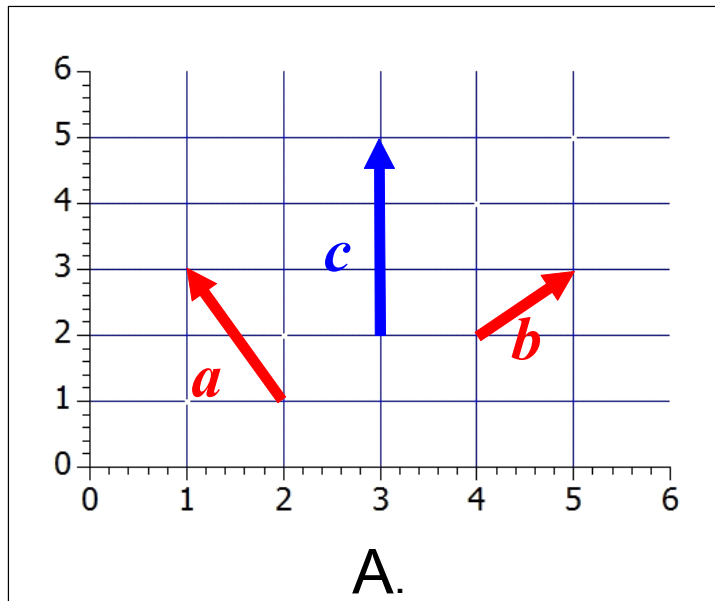
C. $b a d$

D. všechny jsou různé

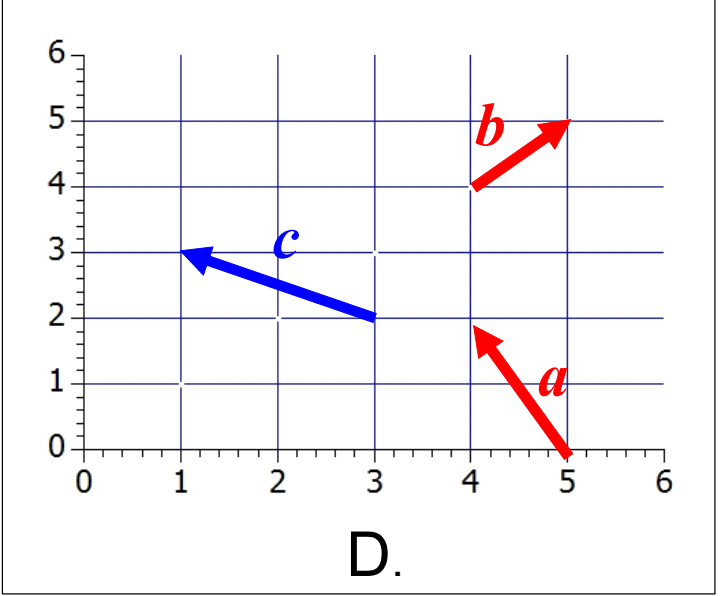
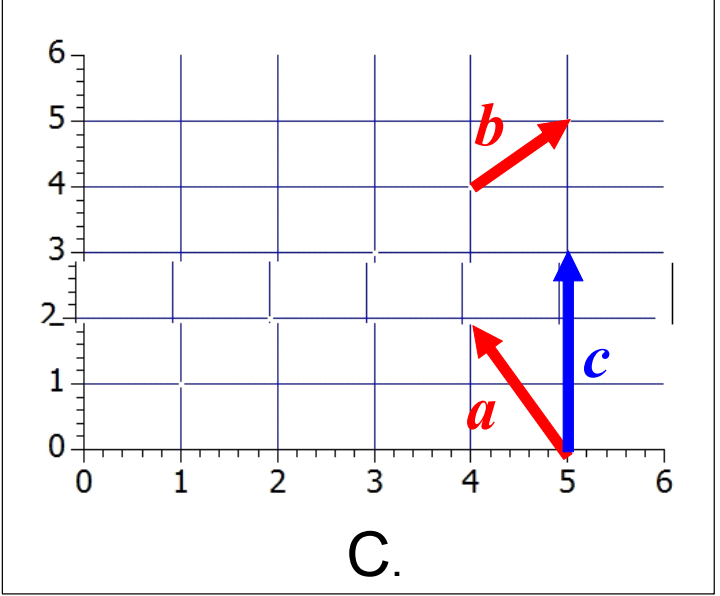
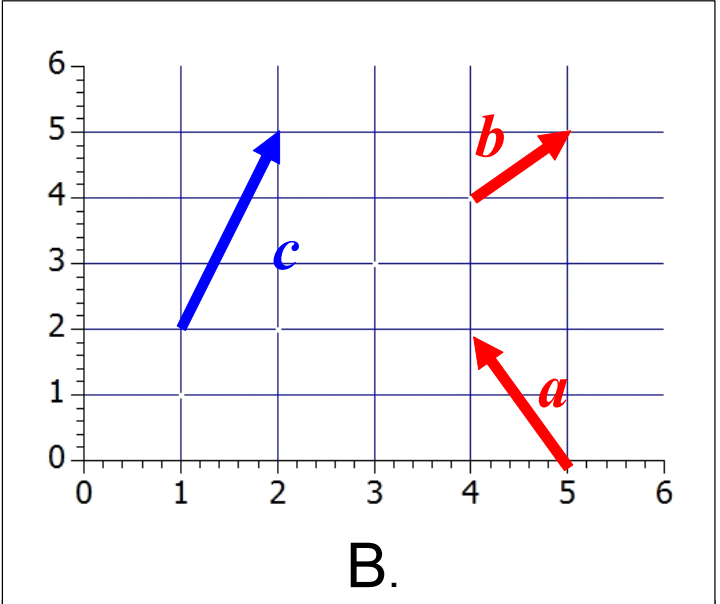
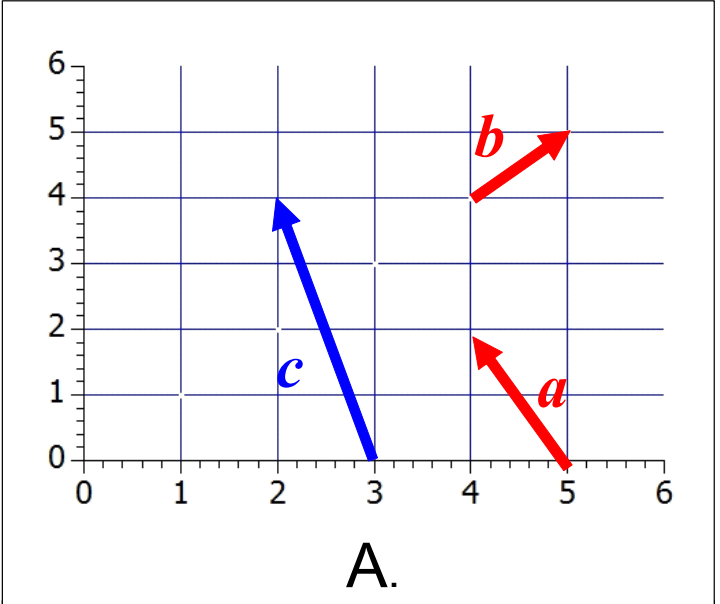
2A Vektor v rovině (2D prostoru) se souřadnicemi (2; -3) můžeme zakreslit jako



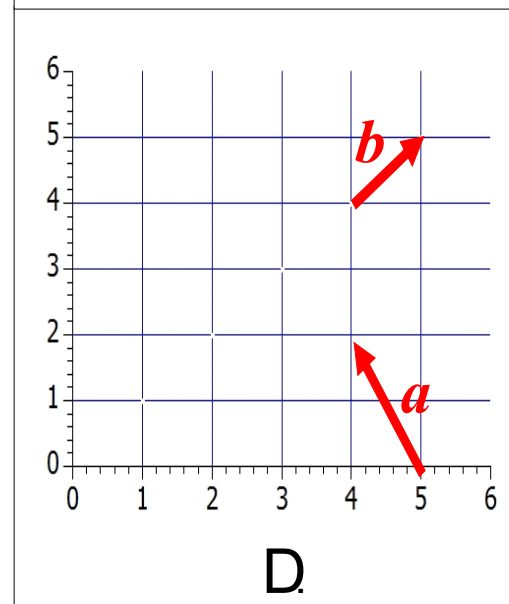
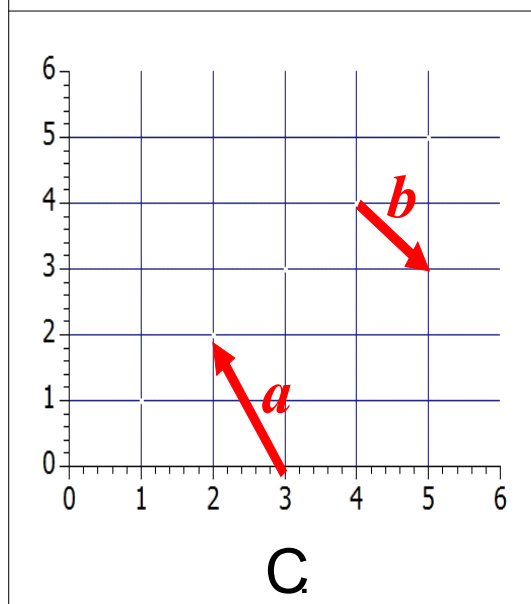
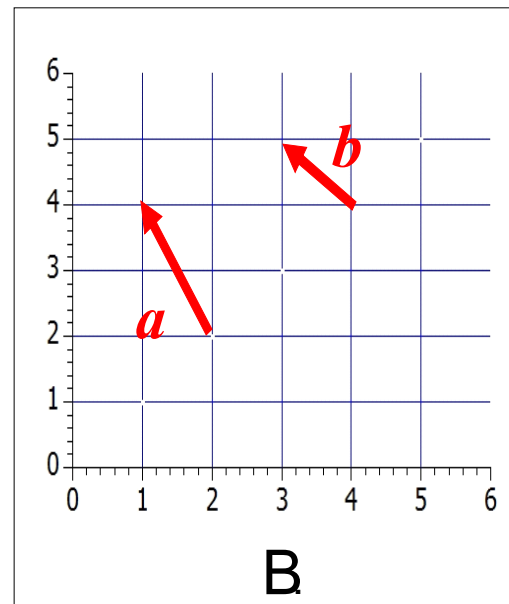
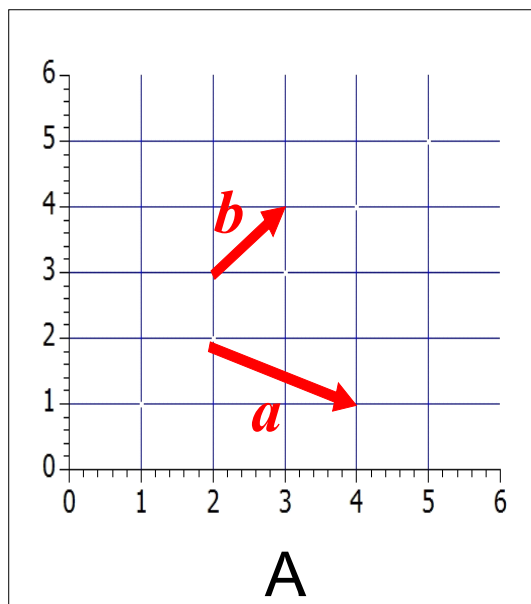
3A Na kterém obrázku je vektor c je součtem vektorů $a + b$?



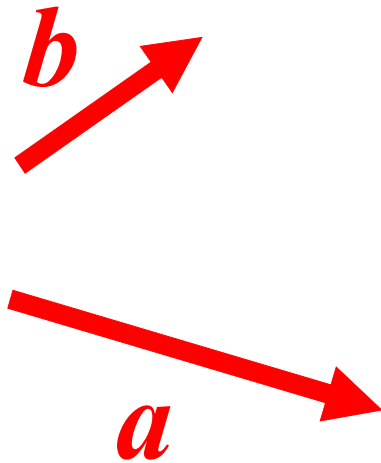
4A Na kterém obrázku je vektor c rozdílem vektorů $a - b$?



5A Na kterém obrázku mají vektory a a b největší hodnotu skalárního součinu?

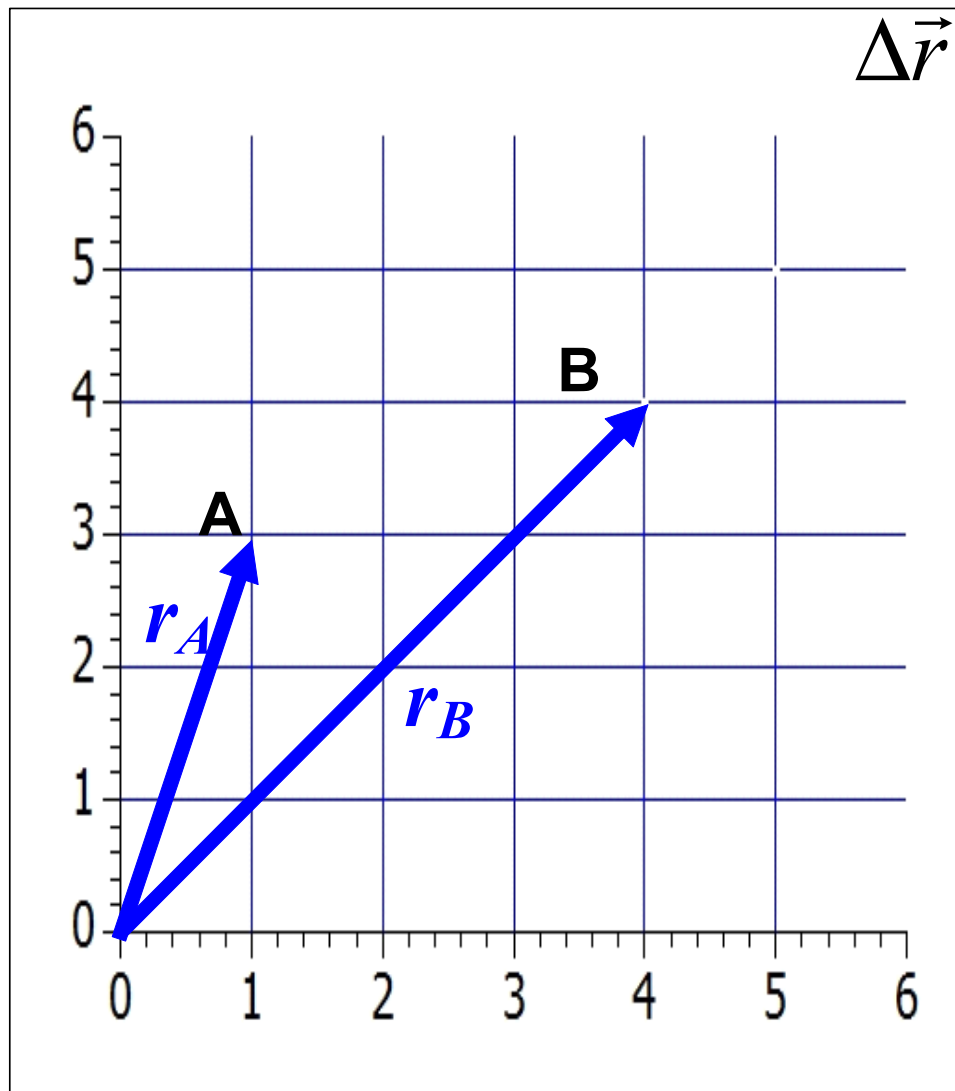


6A Vektorový součin $\mathbf{a} \times \mathbf{b}$ má směr



- A. doprava
- B. doleva
- C. před nákresnu
- D. za nákresnu

7A Hmotný bod se pohyboval z bodu A (polohový vektor r_A) do bodu B (polohový vektor r_B). Změna polohového vektoru



$\Delta\vec{r} = \vec{r}_B - \vec{r}_A$ má souřadnice

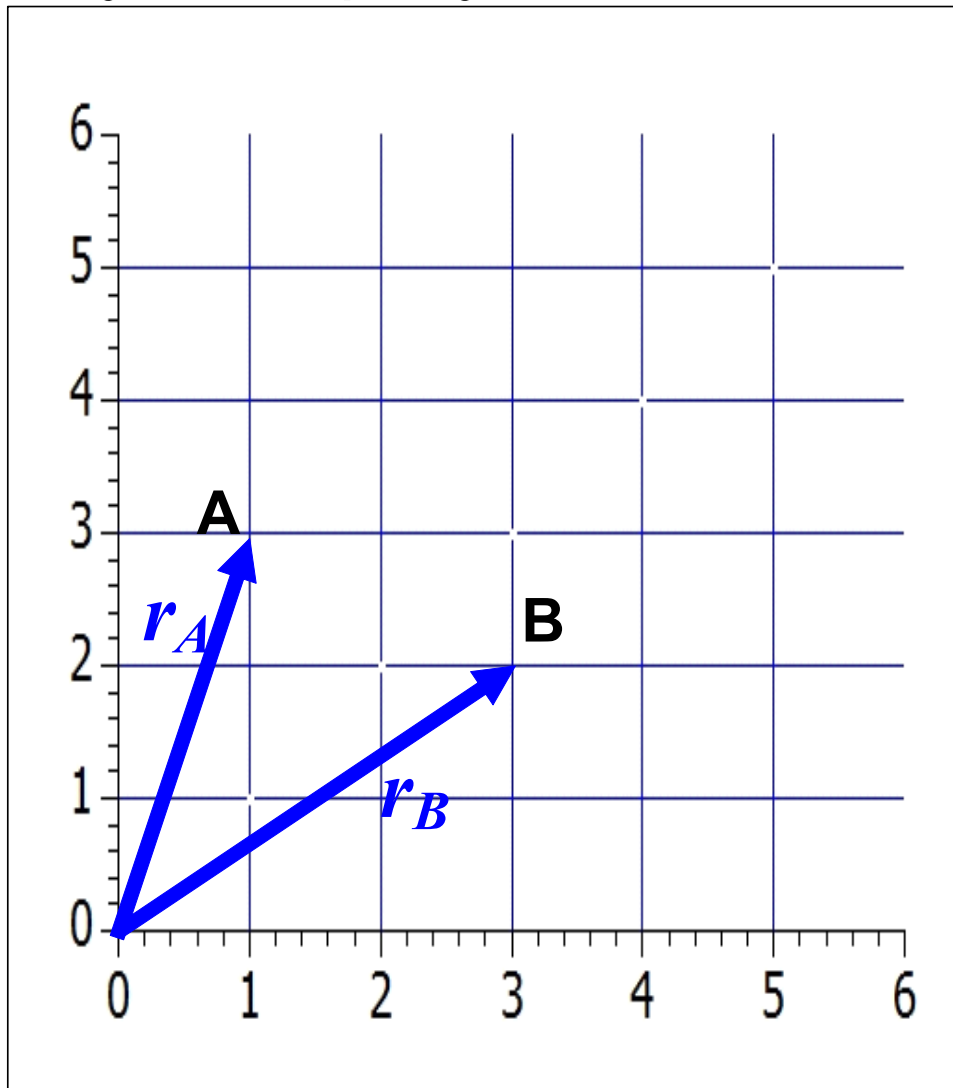
A. (0;3)

B. (4;4)

C. (1;3)

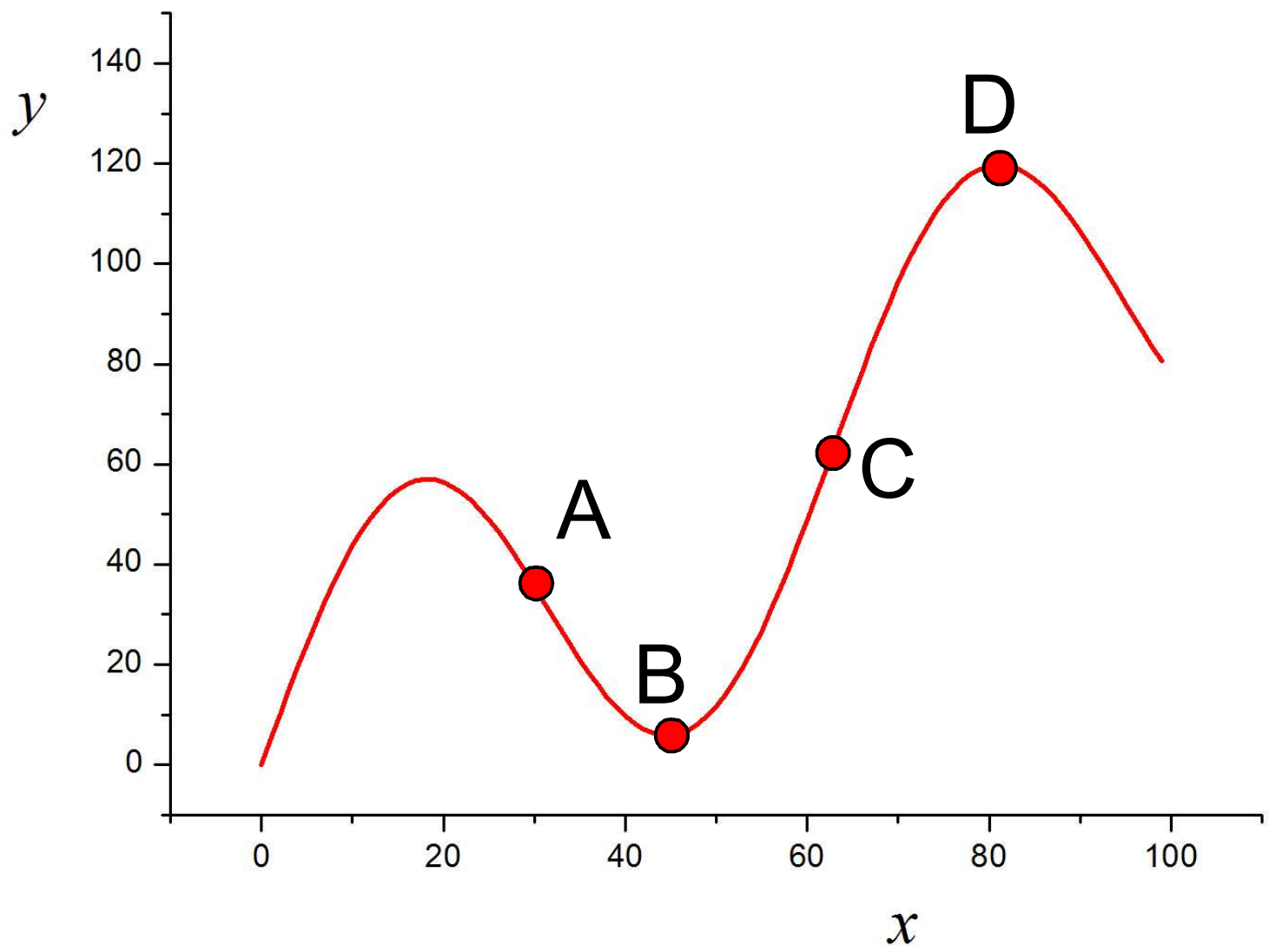
D. (3;1)

8A Hmotný bod se pohyboval z bodu A (polohový vektor r_A) do bodu B (polohový vektor r_B) za čas $t = 2\text{s}$. Průměrná rychlost pohybu měla souřadnice

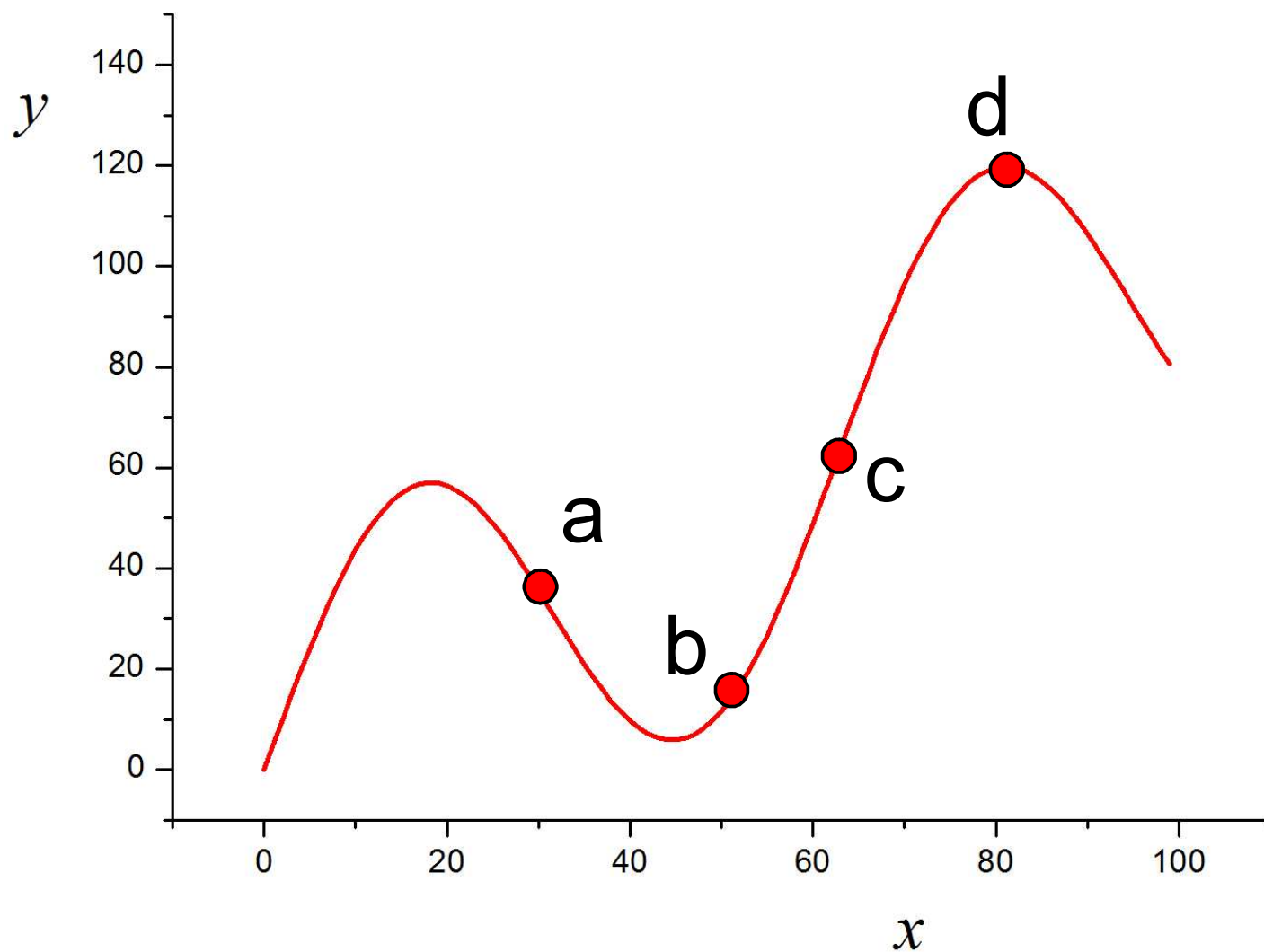


- A. $v = (1;3)$
- B. $v = (2;-1)$
- C. $v = (-1;0,5)$
- D. $v = (1;-0,5)$

9A Ve kterém bodě má funkce největší derivaci?



10A Seřadte body podle hodnoty derivace od nejmenší po největší.



A. d,a,b,c

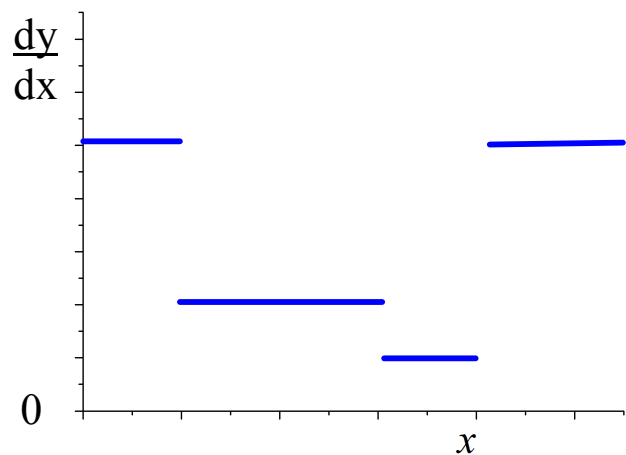
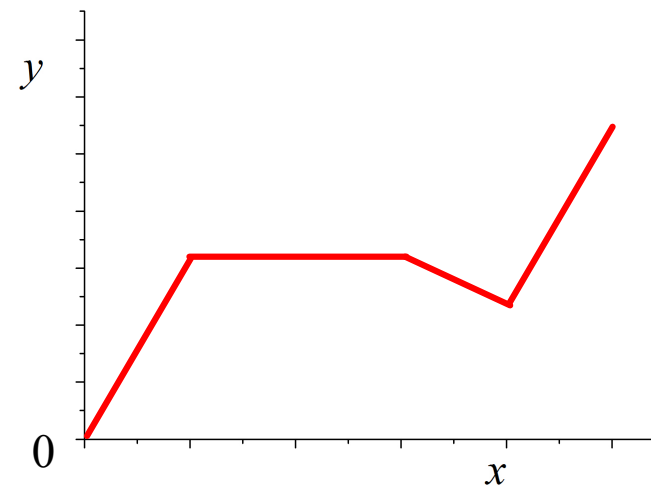
B. a,b,c,d

C. a,d,b,c

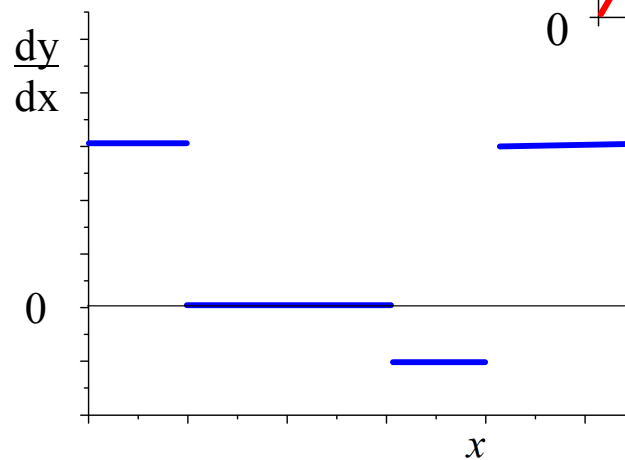
D. b,a,c,d

11A Funkce má graf dle obrázku.

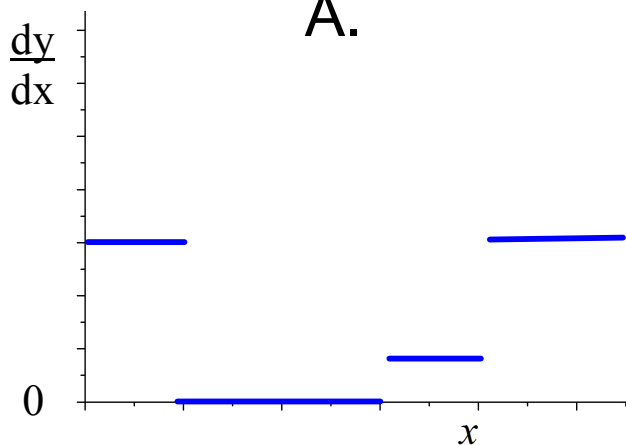
Na kterém obrázku je graf derivace této funkce?



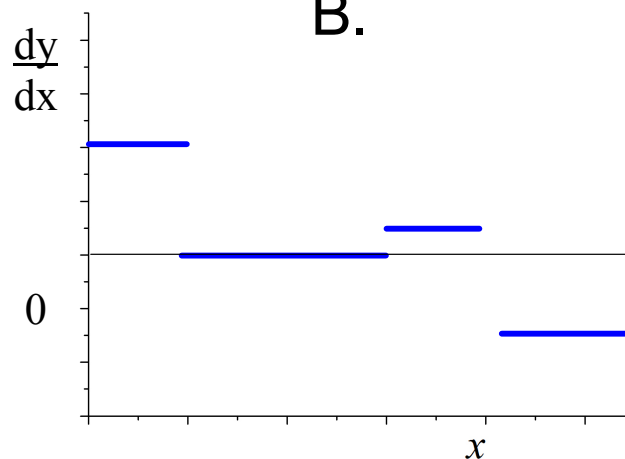
A.



B.



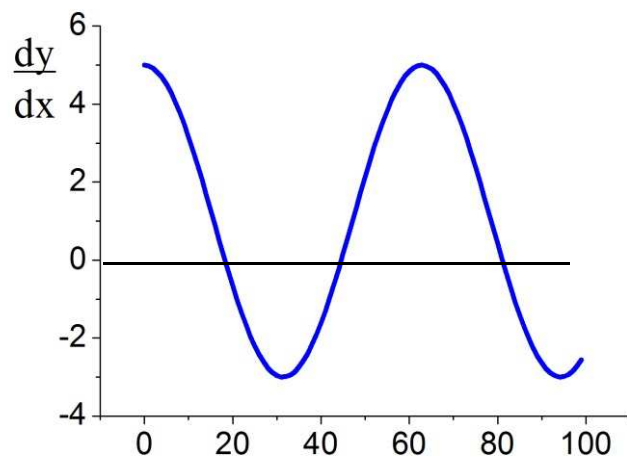
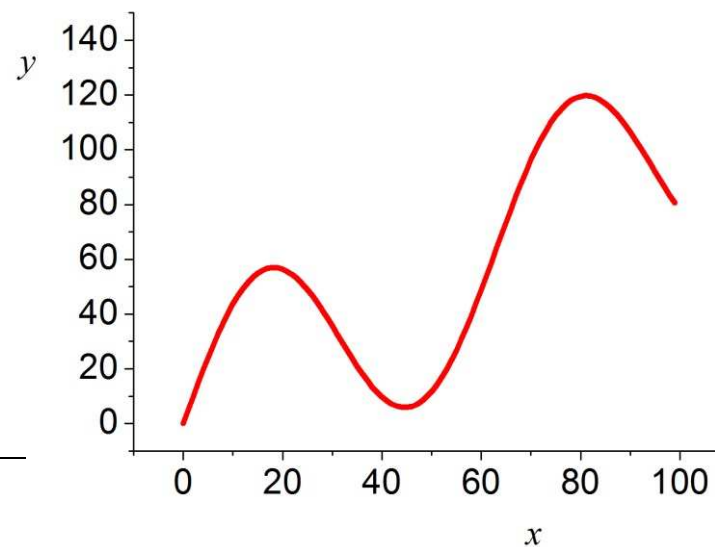
C.



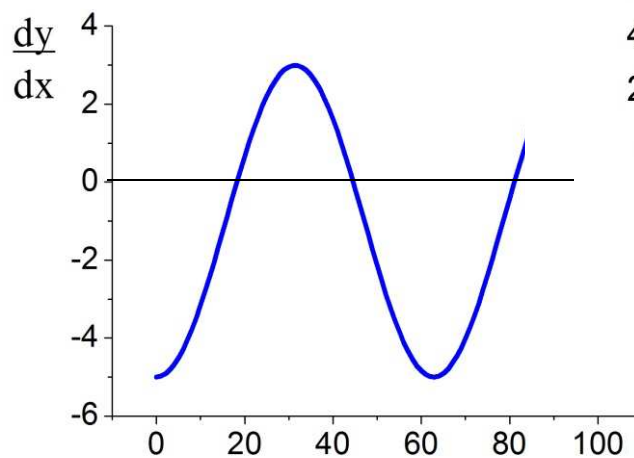
D.

12A Funkce má graf dle obrázku.

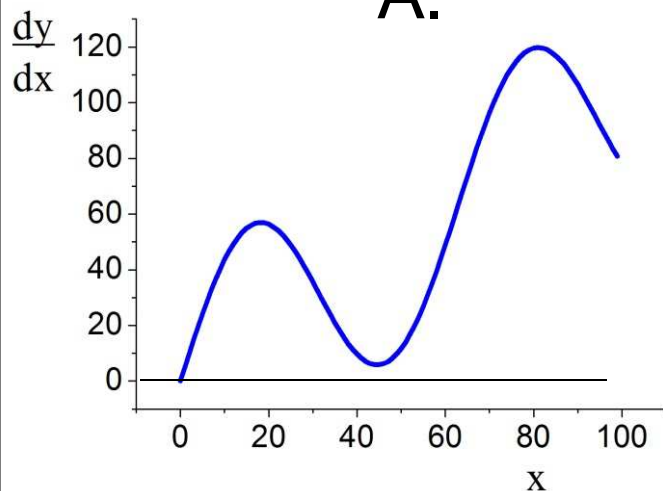
Na kterém obrázku je graf derivace této funkce?



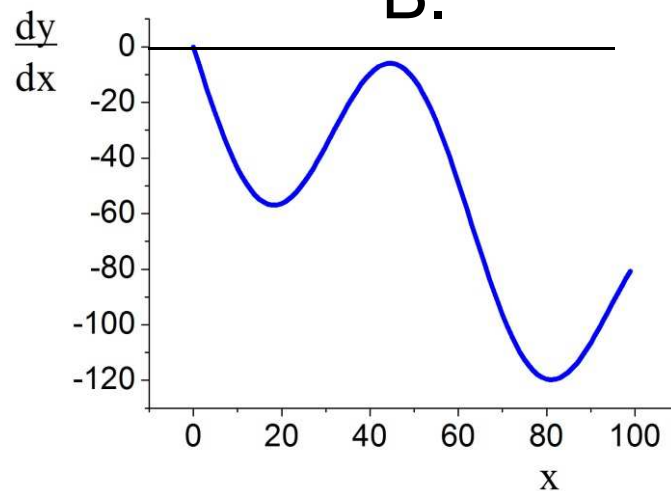
A.



B.

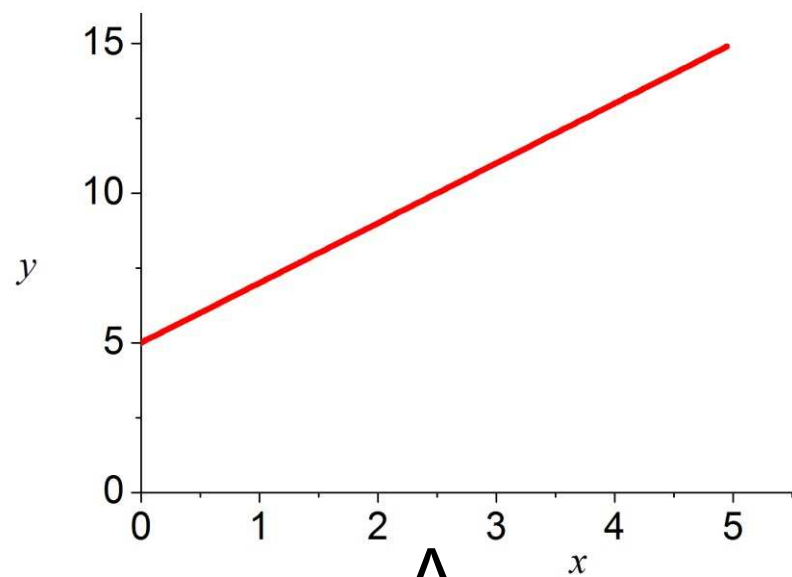


C.

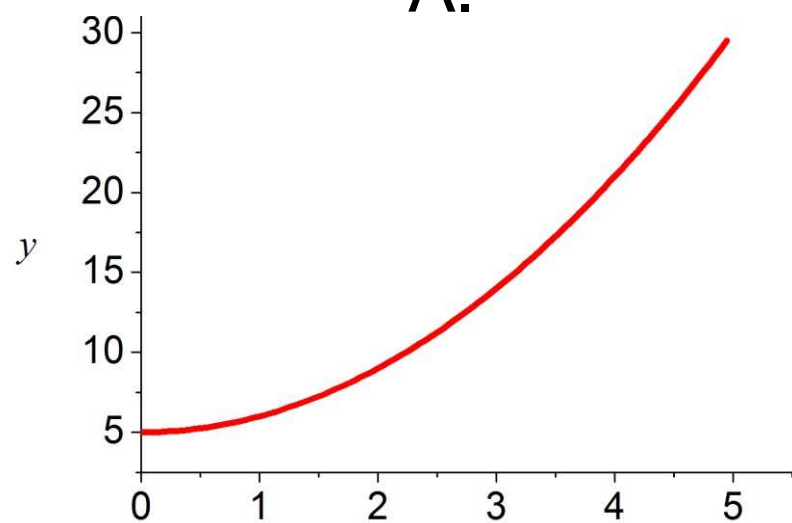


D.

Jaký je graf původní nederivované funkce?

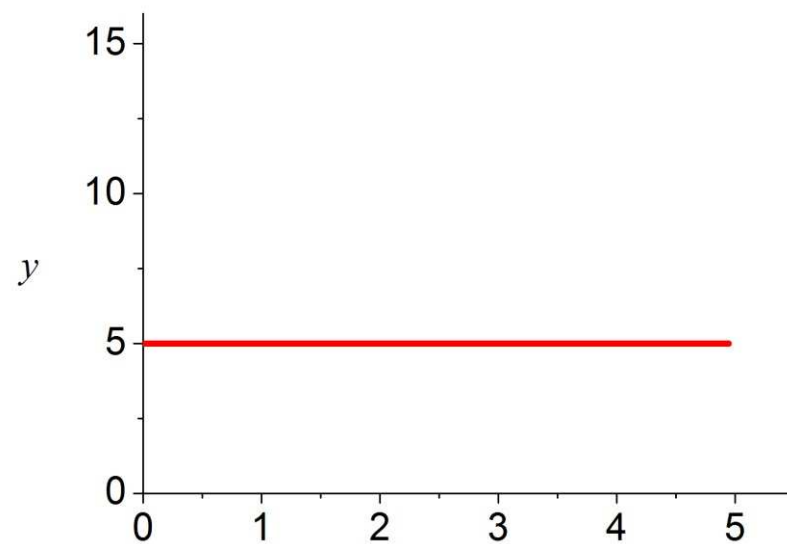
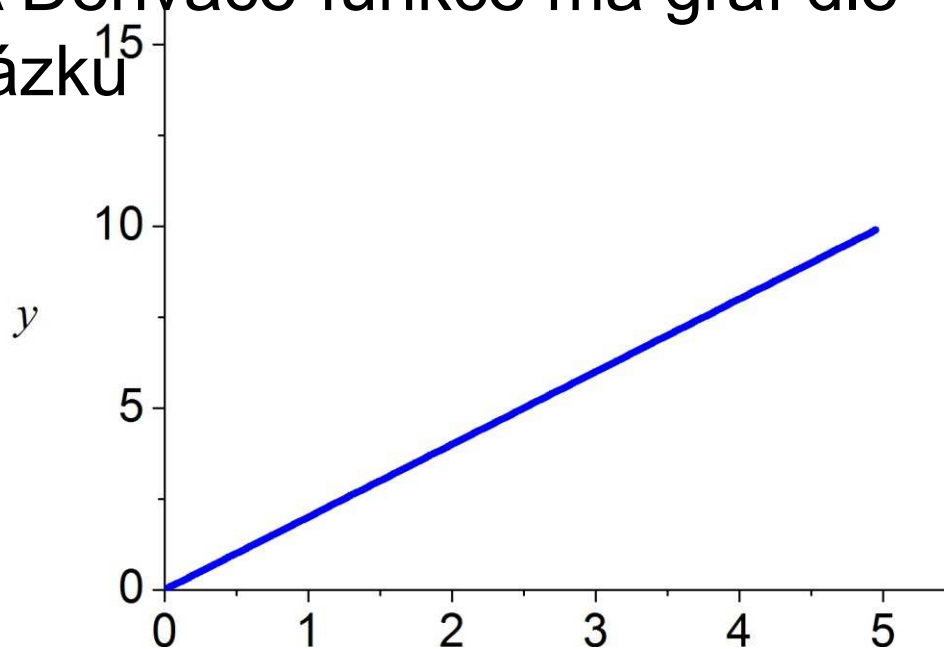


A.



B.

13A Derivace funkce má graf dle obrázku¹⁵



C.