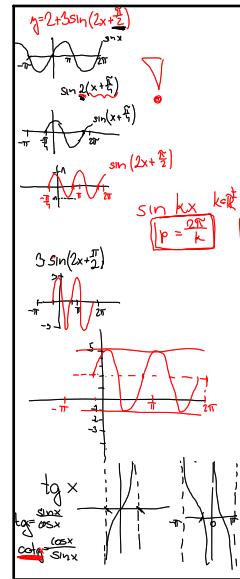
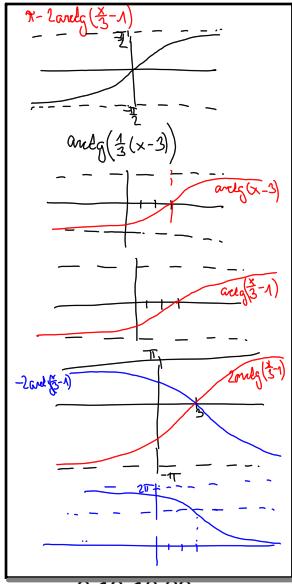


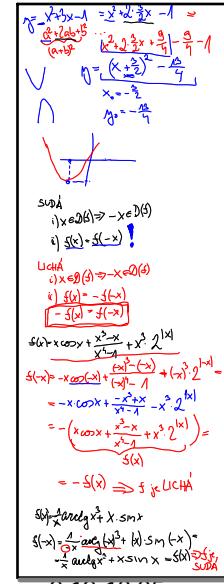
9 19-17:58



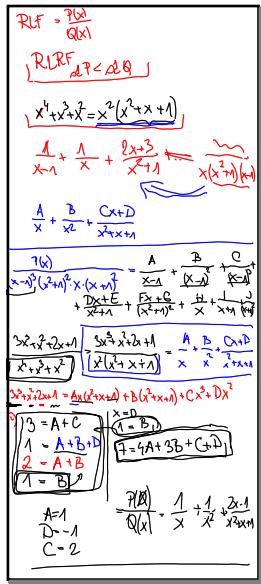
9 19-18:19



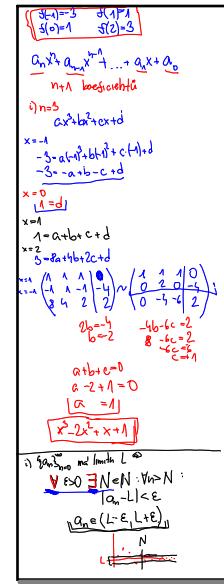
9 19-18:29



9 19-18:35



9 19-18:48



9 19-19:06

(-A)

$\lim_{n \rightarrow \infty} \frac{3+2n}{5-3n} = \frac{\frac{3}{n} + 2}{\frac{5}{n} - 3} = \frac{0+2}{0-3} = -\frac{2}{3}$

$\forall \epsilon > 0 \exists N \in \mathbb{N} : \forall n > N \left| \frac{3+2n}{5-3n} + \frac{2}{3} \right| < \epsilon$

$\left| \frac{3+2n}{5-3n} + \frac{2}{3} \right| < \epsilon$

$\left| \frac{9n+10-6n}{15-9n} \right| < \epsilon$

$\left| \frac{3n+10}{15-9n} \right| < \epsilon$

$n \geq 2$

$\left| \frac{3n+10}{15-9n} \right| < \epsilon$

$\frac{3n+10}{15-9n} < \epsilon$

$3n+10 < \epsilon(15-9n)$

$18 < \epsilon(15-9n)$

$18 < 9n - 9\epsilon n$

$18 + 9\epsilon n < 9n$

$N = \lceil \frac{18 + 9\epsilon n}{9\epsilon} \rceil$

9 19-19:16

$\forall \epsilon > 0 \exists N \in \mathbb{N} : \forall n > N \left| \frac{3+2n}{5-3n} \right| > \epsilon$

$\left| \frac{3+2n}{5-3n} \right| > \epsilon$

$\frac{3+2n}{5-3n} > \epsilon$

$3+2n > \epsilon(5-3n)$

$3+2n > 5\epsilon - 3\epsilon n$

$3\epsilon n + 2n > 5\epsilon - 3$

$n(\epsilon + \frac{2}{3}) > \frac{5\epsilon - 3}{\epsilon}$

$n > \frac{5\epsilon - 3}{\epsilon + \frac{2}{3}}$

$n > \frac{5\epsilon - 3}{\frac{5\epsilon + 2}{3}}$

$n > \frac{3(5\epsilon - 3)}{5\epsilon + 2}$

$n > \frac{15\epsilon - 9}{5\epsilon + 2}$

$n > \frac{15\epsilon}{5\epsilon + 2} - \frac{9}{5\epsilon + 2}$

$n > \frac{15\epsilon}{5\epsilon + 2} - \frac{9}{5\epsilon + 2} > \frac{15\epsilon}{5\epsilon + 2} - 1$

$n > \frac{15\epsilon}{5\epsilon + 2} - 1$

9 19-19:24