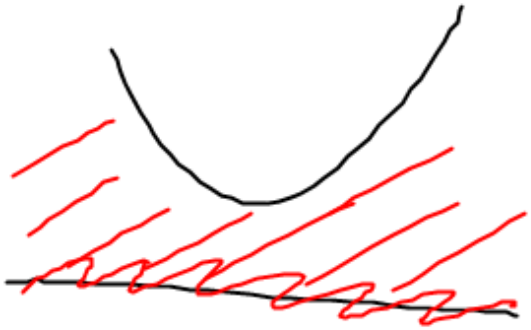
PAG. 136 N 68

$x^2 - 2x + 10 > 0$

COEFF. > 0
QUINDI OK

$\Delta = 4 - 40 < 0$



$\forall x \in \mathbb{R}$

N 70

$x^2 + 4x + 5 < 0$

$\Delta = 16 - 20 < 0$

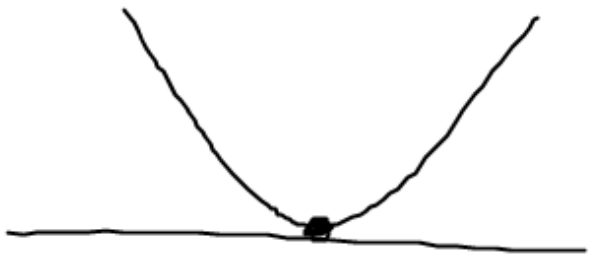
$\nexists x \in \mathbb{R}$

71

$$16x^2 - 24x + 9 < 0$$

$$\Delta = 576 - 576 = 0$$

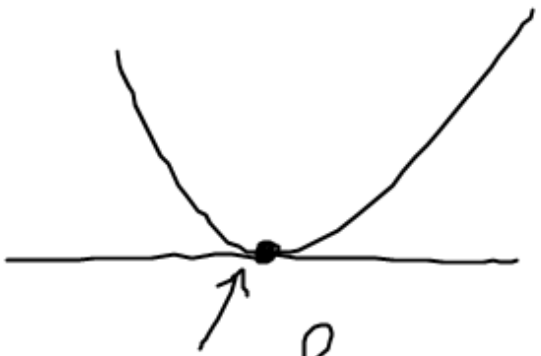
$\nexists x \in \mathbb{R}$



78

$$81x^2 + 18x + 1 \leq 0$$

$$\frac{\Delta}{4} = b^2 - ac = 81 - 81 = 0$$

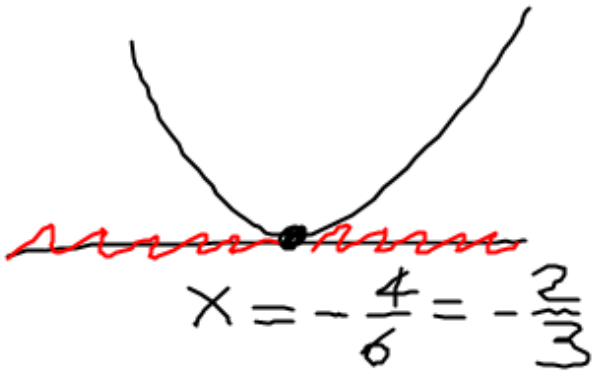


$$x = -\frac{b}{2a} = -\frac{18}{2 \cdot 81} = -\frac{1}{9}$$

$$\boxed{x = -\frac{1}{9}}$$

88

$$3x^2 + 4x + \frac{4}{3} > 0$$



$$\Delta = 16 - 4 \cdot 3 \cdot \frac{4}{3} = 0$$

$\forall x \in \mathbb{R} - \left\{-\frac{2}{3}\right\}$ $\qquad$ $\forall x \neq -\frac{2}{3}$

156

$$\frac{1}{5}\left(\frac{x-2}{2}\right)+\frac{4x^2+x}{4}-\frac{1}{8}\left(1+\frac{13}{5}\right)>0$$

$$\frac{x-2}{10}+\frac{4x^2+x}{4}-\frac{1}{8}\left(\frac{18}{5}\right)>0$$

$$\frac{x-2}{10}+\frac{4x^2+x}{4}-\frac{\overset{9}{\cancel{18}}}{\underset{20}{\cancel{40}}}>0$$

$$\frac{2x-4+20x^2+5x-9}{\cancel{20}}>0$$

$$20x^2+7x-13>0$$

$$20x^2+7x-13>0$$

$$\Delta = 7^2-4\cdot 20\cdot(-13)=1089$$

$$x=\frac{-7\pm 33}{40}=\begin{cases}-\frac{40}{40}=-1\\ +\frac{26}{40}=\frac{13}{20}\end{cases}$$

$$x<-1 \vee x>\frac{13}{20}$$