Bathroom breaks are to be taken before class!!

Do NOT move the desk!!

Turn your phone OFF!!

Put your phone up!!

Sit down!! **Be quiet!!**

Prepare to work!!

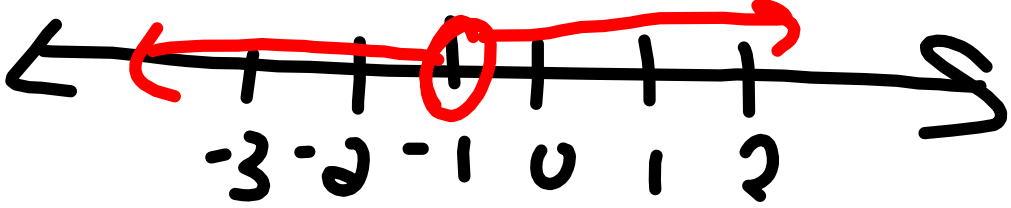
Keep your hands to yourself!!

7) $y = \frac{1}{x+1} + 9$

$x + 1 = 0$

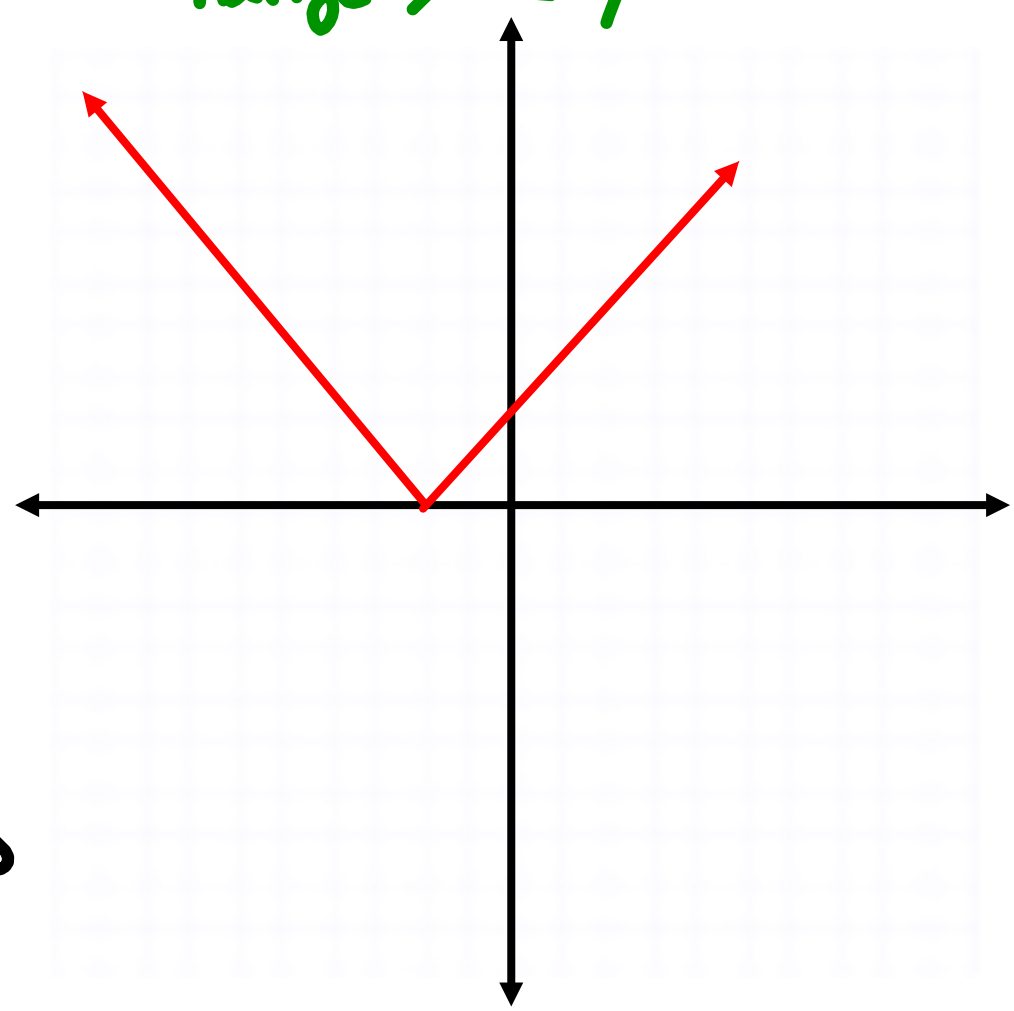
$x \neq -1$

All real #s except $x = -1$



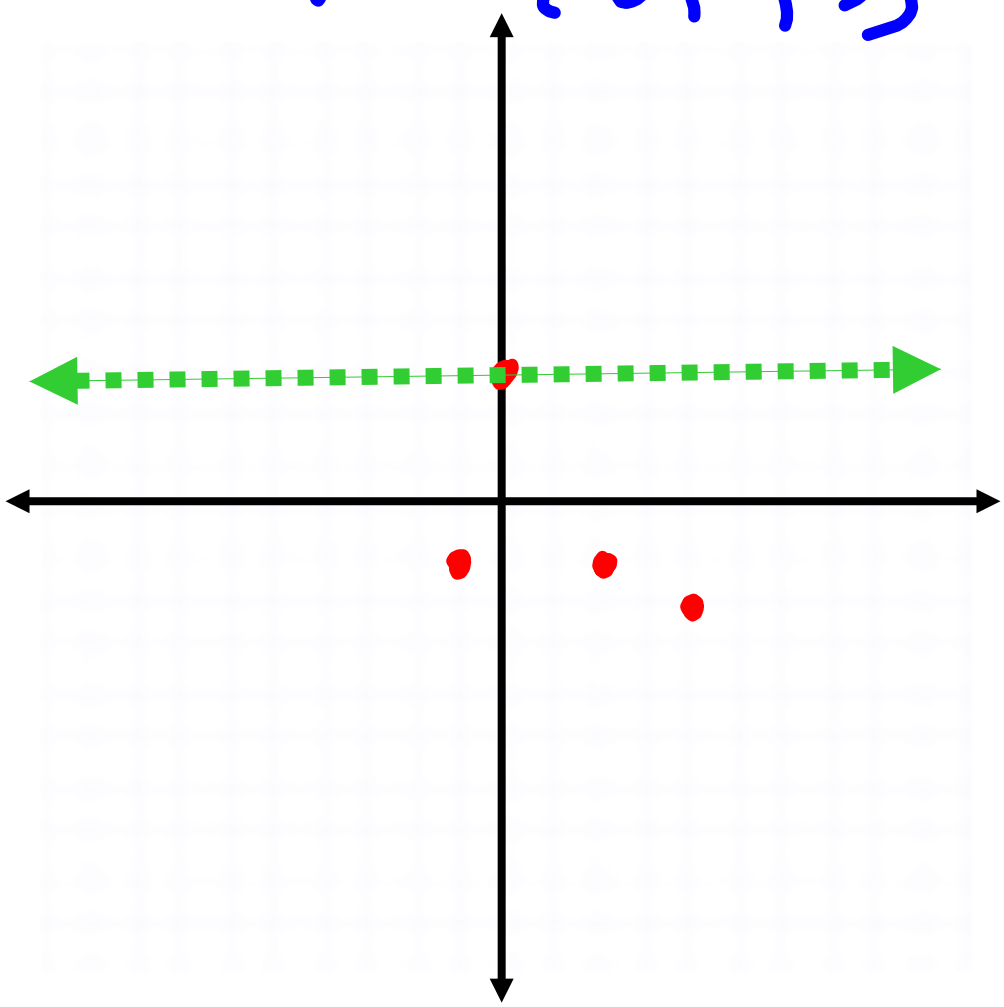
8) Domain $\Rightarrow -\infty \leq x \leq +\infty$

Range $\Rightarrow 0 \leq y \leq +\infty$

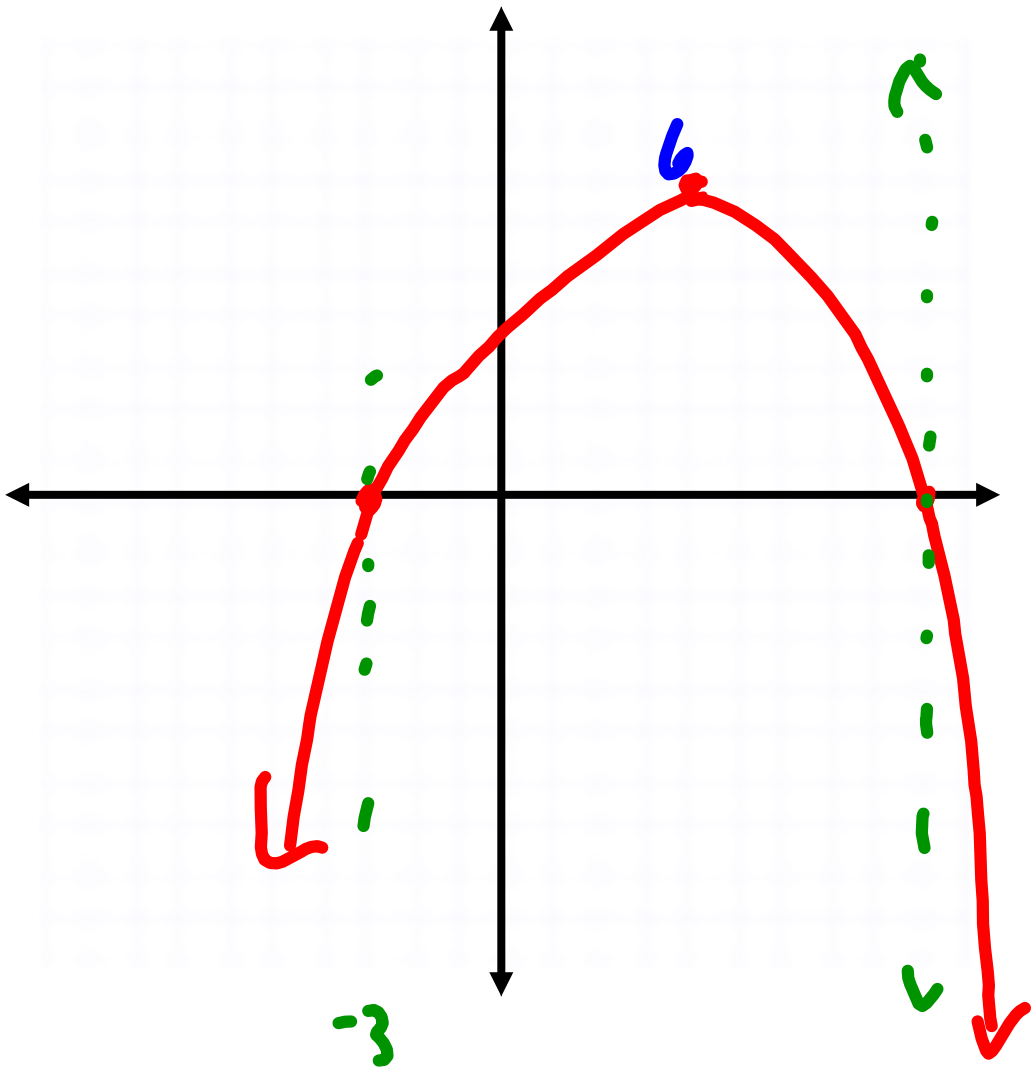


13) Domain ⇒ $\{-1, 0, 2, 4\}$

Range ⇒ $\{-2, -1, 3\}$



15)



Pos y values $\Rightarrow -3 < x < 11$

Neg y values $\Rightarrow x < -3$ & $x > 9$

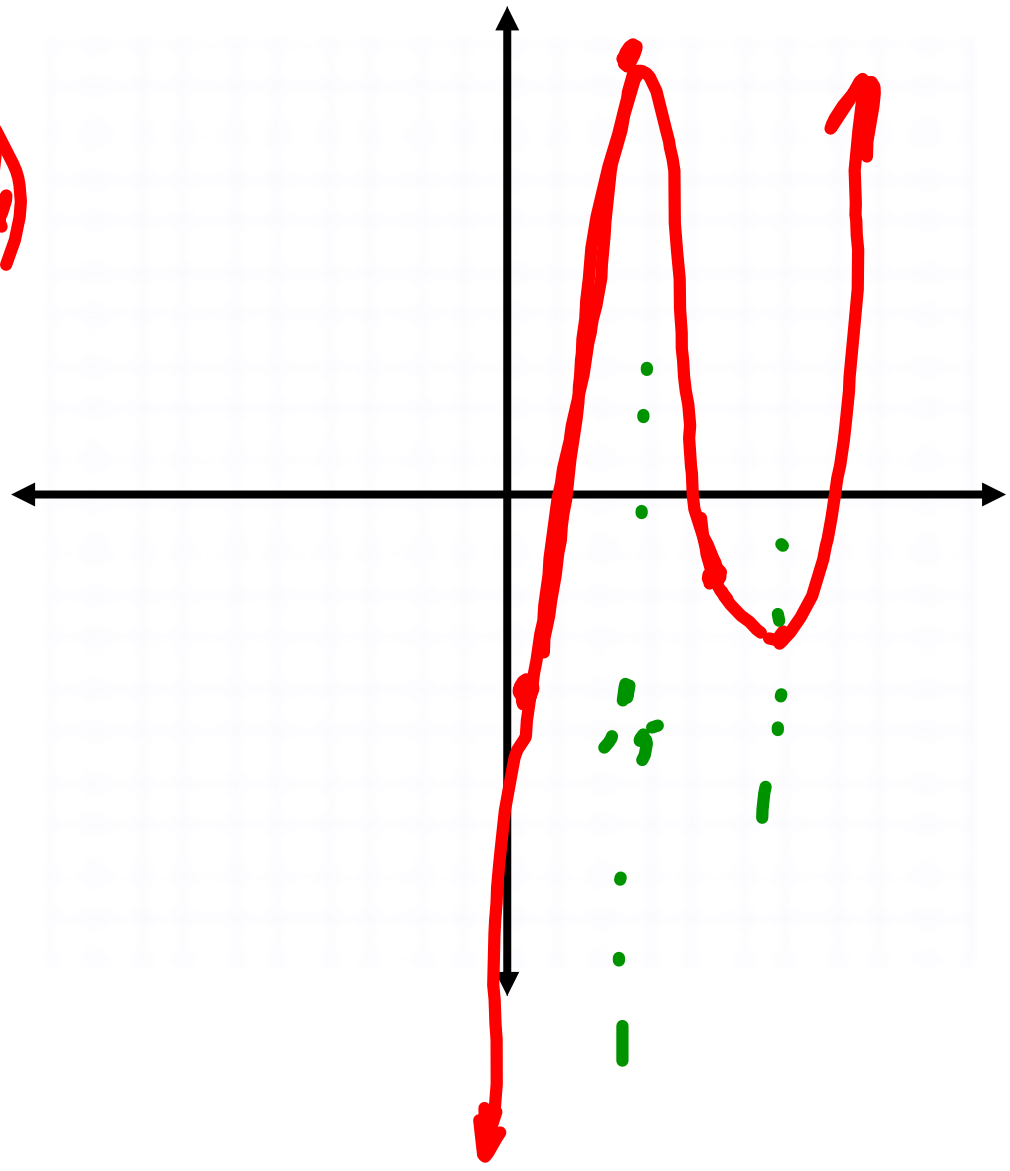
Inc y values $\Rightarrow x < 6$

Dec y values $\Rightarrow x > 6$

Left End Beh $\Rightarrow x \to -\infty$ $y \to -\infty$

Right End Beh $\Rightarrow x \to +\infty$ $y \to -\infty$

26)



Pos y-value $\Rightarrow x > -3$

Neg y-value $\Rightarrow x < -3$

Inc $\Rightarrow x < -1.56$ $x > 1$

Dec $\Rightarrow -1.5 < x < 1$

Left EB $\Rightarrow x \to -\infty$ $y \to -\infty$

Right EB $\Rightarrow x \to \infty$ $y \to +\infty$

81)

x	3	6	9	12
y	36	30	24	18

+3 +3 +3

-6 -6 -6

$m = \frac{-6}{3} = -2$

Linear

82) $y = x^2 + 13$

NONlinear

83) $y = \sqrt[3]{6} - x$

linear

75 50 600

× .8 × .2 + 10.0

600 100 700