
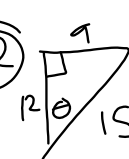
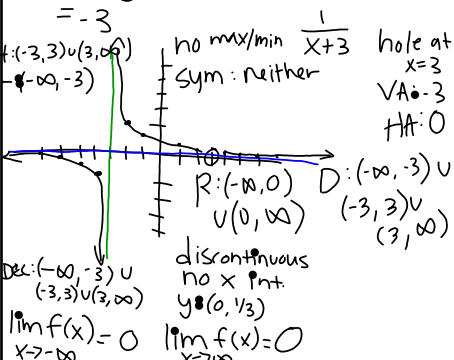


Starter 11/10 Find Where $f(x)=g(x)$
 (On Scratch Paper)
 $f(x) = 1.5x + 5$
 $g(x) = 2x^2 + 12x + 13$

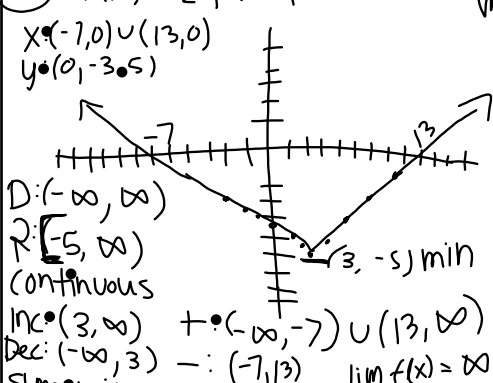
Nov 10-7:12 AM

Calendar Math
 SOHCAHTOA: RATIOS
 $\sin = \frac{\text{OPP}}{\text{hyp}}$ $\tan = \frac{\text{OPP}}{\text{adj}}$ $\sin \theta = \frac{4}{5}$
 $\cos = \frac{\text{adj}}{\text{hyp}}$ (ex1)  $\cos \theta = \frac{3}{5}$
 (ex2)  $\sin \theta = \frac{9}{15} = \frac{3}{5}$
 $\cos \theta = \frac{12}{15} = \frac{4}{5}$
 $\tan \theta = \frac{9}{12} = \frac{3}{4}$

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Homework Questions
 2) $f(x) = \frac{x-3}{x^2-9} = \frac{x-3}{(x+3)(x-3)}$ $x-3=0 \Rightarrow x=3$
 $HA = \frac{1}{x} = 0$ $VA = x+3=0 \Rightarrow x=-3$ hole at $x=3$
 $x = -3$

 no mx/min $\frac{1}{x+3}$ hole at $x=3$
 Sym: neither $VA: -3$
 $HA: 0$
 $D: (-\infty, -3) \cup (-3, 3) \cup (3, \infty)$
 $R: (-\infty, 0) \cup (0, \infty)$
 discontinuous no x int. $y = (0, 1/3)$
 $\lim_{x \rightarrow -\infty} f(x) = 0$ $\lim_{x \rightarrow \infty} f(x) = 0$

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3) $f(x) = \frac{1}{2}|x-3| - 5$ $HA: \text{none}$
 $VA: \text{none}$
 $x = (-7, 0) \cup (13, 0)$
 $y = (0, -3.5)$

 $D: (-\infty, \infty)$
 $R: [-5, \infty)$
 continuous
 $inc: (3, \infty)$ $+ : (-\infty, -7) \cup (13, \infty)$
 $Dec: (-\infty, 3)$ $- : (-7, 13)$ $\lim_{x \rightarrow -\infty} f(x) = \infty$ $\lim_{x \rightarrow \infty} f(x) = \infty$
 Sym: neither

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$\frac{x^2+1}{x-1} = \frac{x^2}{x-1} + \frac{1}{x-1}$ $HA: \text{none}$
 $\frac{x^2}{x^2} = 1$ or $\#$
 $\frac{x}{x^2} = 0$

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4.5 Graphing Rational Functions Pt. 2

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