

Quiz 4.2
 Starter #21
 Rational Warm-up

Nov 14-7:02 AM

EX. 2 $\frac{x+1}{x^2-5x+4}$ $\frac{-1(\cancel{x+1})}{(x-4)(\cancel{x-1})}$
 VA $x=4$ hole $(1, \frac{1}{3})$ $\frac{-1}{1-4}$ $\frac{-1}{-3}$ $\frac{1}{3}$
 $x=4$ $x=1$ hole

Nov 14-10:08 AM

D: $(-\infty, 1) \cup (1, 4) \cup (4, \infty)$
 R: $(-\infty, 0) \cup (0, \frac{1}{3}) \cup (\frac{1}{3}, \infty)$
 pos: $(-\infty, 1) \cup (1, 4)$
 neg: $(4, \infty)$

$\lim_{x \rightarrow -\infty} f(x) = 0$
 $\lim_{x \rightarrow \infty} f(x) = 0$

Nov 14-10:12 AM

Review Unit 4
 Extra Credit up to 20 points
 Feed the Grizzlies
 Read the options on the board

Nov 14-6:59 AM

4.5 Graphing Rational Functions Day 2
 Example 1: Graph the function $f(x) = \frac{x^2-2x-3}{x+2}$
 $(x-3)(x+1)$

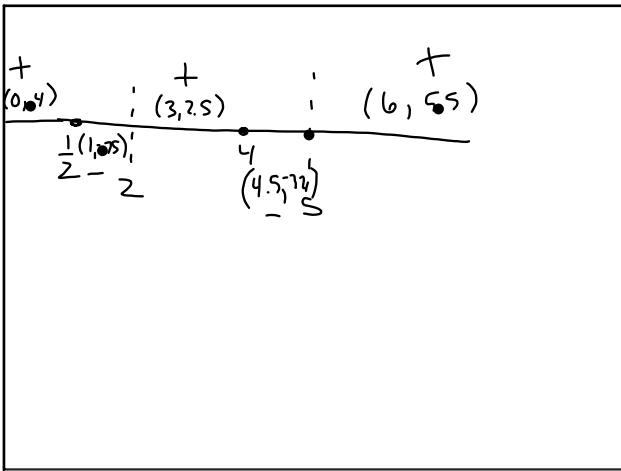
Domain: $(-\infty, -2) \cup (-2, \infty)$
 Range: $(-\infty, -10.47] \cup [-1.53, \infty)$
 Vertical Asymptotes: $x = -2$
 Horizontal Asymptotes: none
 Continuity: discontinuous, nonvertical
 x-intercepts: $(3, 0)$ $(-1, 0)$
 y-intercept: $(0, -1.5)$
 Increasing: $(-\infty, -4.24) \cup (2.24, \infty)$
 Decreasing: $(-4.24, -2) \cup (-2, 2.24)$
 Positive: $(-2, -1) \cup (3, \infty)$
 Negative: $(-\infty, -2) \cup (-1, 3)$
 Relative Max/s: $(-4.24, -10.47)$
 Relative Min/s: $(2.24, -1.53)$
 Symmetry: neither
 End Behavior: neither

$\lim_{x \rightarrow -\infty} f(x) = -\infty$
 $\lim_{x \rightarrow \infty} f(x) = \infty$

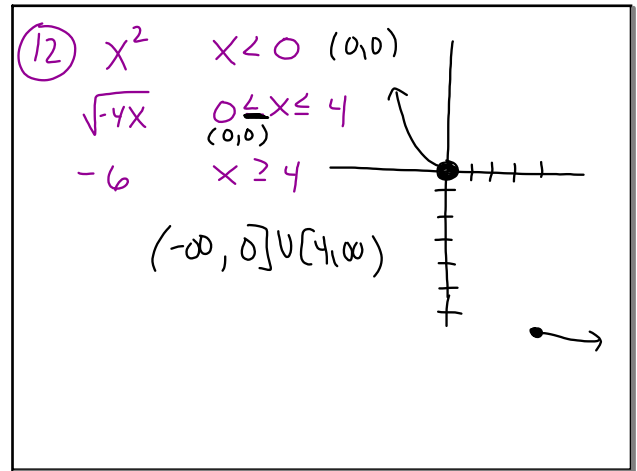
Nov 14-7:22 AM

⑤ $\frac{2x^2-9x+4}{1x^2-7x+10}$ $\frac{(x-4)(2x-1)}{(x-2)(x-5)}$
 $x=2$ $x=5$

Nov 14-8:26 AM



Nov 14-10:32 AM



Nov 14-8:38 AM

mon - thurs 7
 After school A days
 - Finish 4.5 part 2
 - Starter #21
 - 4.4 A (4 graphs)

Nov 14-8:43 AM

Starter 21
 $f(x) = a(x-h)^2 + k$
 $2|x-4| - 7$
 $h=4$ $k=-7$
 vertex (h,k)
 min $(4, -7)$

Nov 14-8:47 AM

Wed review 4
 Fri review #2
 tue test unit 4

Nov 14-8:49 AM