February 8, 2017

* No Class Friday

Feb 8-9:57 AM

#3) $y = 4x - 6$

x	y
0	-6
-1	-2
2	2

Feb 8-10:02 AM

Functions

$f(x) = c$ Constant

$f(x) = 5$ Domain

$f(x) = x$ Linear

$x \leftarrow$ Domain

$D: (-\infty, \infty)$

$f(x) = x^2$ Quadratic

$D: (-\infty, \infty)$

Feb 8-10:13 AM

$f(x) = \sqrt{x}$ Square Root

test: $x \geq 0$

$D: [0, \infty)$

$f(x) = \frac{1}{x}$ Rational

test: $x = 0$ then $x \neq 0$

$D: (-\infty, 0) \cup (0, \infty)$

Feb 8-10:20 AM

#5) $y = \sqrt{7x - 4}$

$\sqrt{x}$

$7x - 4 \geq 0$

$7x \geq 4$

$x \geq \frac{4}{7}$

x	y
-1	-11

Feb 8-10:25 AM

$y^2 = 4x$

$y = \pm\sqrt{4x}$

Feb 8-10:30 AM

$$f(x) = \frac{x}{x^2+9}$$

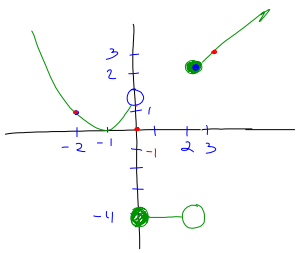
$$f(-x) = \frac{(-x)}{(-x)^2+9}$$

(-x) ↑ Input

$$= \frac{-x}{x^2+9}$$

$$= -\frac{x}{x^2+9}$$

Feb 8-10:32 AM



$y = f(x)$

a) $f(-2) = 1$

b) $f(3) = 3$

c) find all x so $f(x) = -1$?

Feb 8-10:36 AM