

March 4, 2015

$$3 + \boxed{3 \cdot \frac{1}{3}} - 3 \div 3 + 3$$

$$3 + 1 - 3 \div 3 + 3$$

$$\boxed{3 + 1} - 1 + 3$$

$$\boxed{4 - 1} + 3$$

$$\boxed{3 + 3}$$

$$\boxed{6}$$

Mar 4-10:59 AM

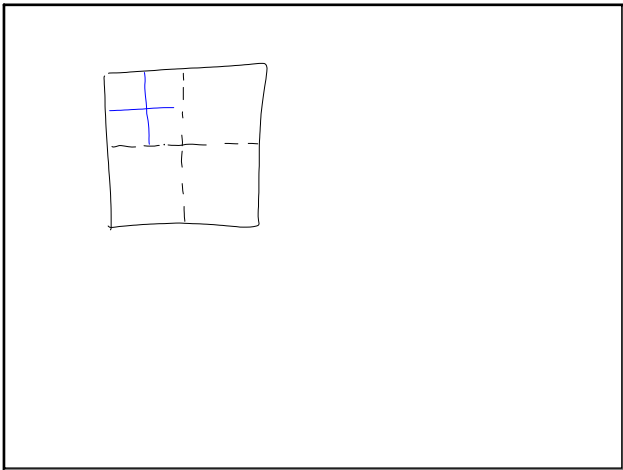
$$\frac{\frac{2}{7} - \frac{1}{4}}{\frac{5}{6} + \frac{1}{4}} = \frac{\frac{6-35}{21}}{\frac{10+3}{12}}$$

$$= -\frac{\frac{29}{21} \cdot \frac{12}{12}}{\frac{13}{12}}$$

$$= -\frac{29}{21} \cdot \frac{12}{13}$$

$$= -\frac{116}{91}$$

Mar 4-11:14 AM



Mar 4-11:24 AM

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

Parent
D: $[0, \infty)$

x	f(x)
0	0
1	1
4	2
9	3
-4	Not a Real Number
-1	"

$f(-4) = \sqrt{-4}$

$(?)^2 = -4 \in \mathcal{R}$

$(-2)^2 = (-2) \cdot (-2) = 4$

Mar 4-11:26 AM

$\sqrt{25} = 5; (5)^2 = 5 \cdot 5 = 25$

$-\sqrt{25} = (-1) \cdot \sqrt{25} = -1 \cdot 5 = -5$

$(5)^2 = 25$

Mar 4-11:31 AM

$g(x) = \sqrt{x} - 5$

Parent

Vertical Shift down 5 units

x	g(x)
0	-5
1	-4
4	-3
9	-2

Mar 4-11:35 AM

$$f(x) = \sqrt{x} + k$$

Parent

- ① If $k > 0$, \sqrt{x} shifts up k units.
- ② If $k < 0$, \sqrt{x} shifts down k units.

Mar 4-11:40 AM

$$h(x) = \sqrt{x-3} + 0$$

Radical

$$x - 3 \geq 0$$

+3 +3

$$x \geq 3$$

Domain: $[3, \infty)$

x	$h(x)$

Mar 4-11:45 AM