

April 6, 2015

$\frac{E1}{75}$ $\frac{E2}{50}$ $\frac{E3}{70}$ (F) (75)

$\frac{L}{100}$ $\frac{\text{Complex}}{50}$ $\frac{\text{Create}}{50}$

$\downarrow \leftarrow \rightarrow$
 \leftarrow

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#4) $f(x) = -\sqrt{x+2} + 2$

$x+2 \geq 0$
 $x \geq -2$

$\mathcal{D}: [-2, \infty)$ $h = -2$
 $k = 2$

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#9) $\sqrt[12]{a^3 b^9}$

$a^{3/12} \cdot b^{9/12}$
 $a^{1/4} \cdot b^{3/4}$

$\sqrt[4]{a^1 b^3}$

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#11)

$$\frac{\sqrt{a}}{\sqrt{b}-\sqrt{a}} \cdot \frac{\sqrt{b}+\sqrt{a}}{\sqrt{b}+\sqrt{a}}$$

$$\frac{\sqrt{ab} + a}{b - a}$$

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$h = 5t + 75$
 $h = 5(0) + 75$
 $h = 75 \text{ ft}$

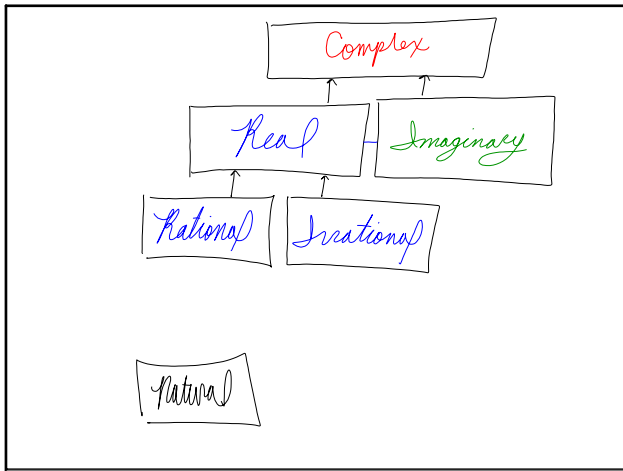
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Complex Numbers

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Quadratic Functions

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FACTS

① $\sqrt{-1} = i$

② $i^2 = -1$

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$$x^2 + 4 = 0$$

$$\sqrt{x^2} = \pm \sqrt{-4}$$

$$x = \pm \sqrt{(-1) \cdot 4}$$

$$= \pm \sqrt{-1} \cdot \sqrt{4}$$

$$= \pm i \cdot 2$$

$$= \pm 2i$$

$(?)^2 = -4$
 ↑
 Not a Real Number!

$$(2i)^2 = (2i)(2i)$$

$$= 4i \cdot i$$

$$= 4i^2$$

$$= 4 \cdot (-1)$$

$$= -4$$

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$$\sqrt{-4} = \sqrt{-1} \cdot \sqrt{4}$$

$$= 2i$$

$$\sqrt{-49} = \sqrt{-1} \cdot \sqrt{49}$$

$$= 7i$$

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

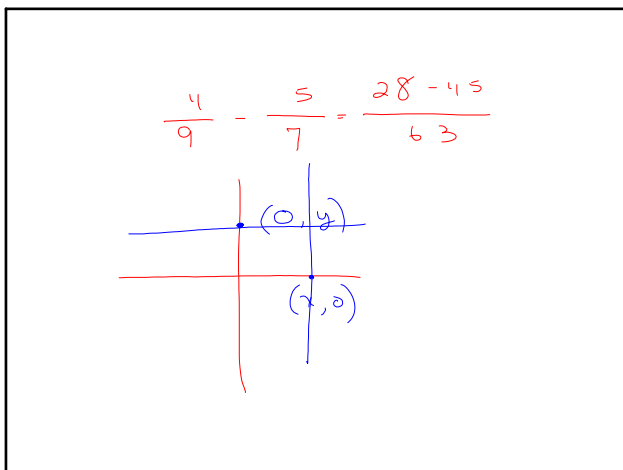
$$= \sqrt{-1} \cdot \sqrt{5}$$

$$= i \cdot \sqrt{5}$$

$$= i\sqrt{5}$$

Don't write as $\sqrt{5}i$

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