

Warm-up 4/5/17

1. $(8)^2 = 64$

2. $(-8)^2 = 64$

$$x^2 = 64$$

$$x = \pm 8$$

Pg. 1004

1

$$t = 440^2 = 193,600$$

2-3

$$h^2 = 75$$

$$h = \sqrt{75}$$

Pg. 1005-1007

$$\sqrt{64} < \sqrt{75} < \sqrt{81}$$

$$8 < \sqrt{75} < 9$$

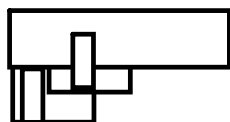
$$\sqrt{75} \approx 8.66025\dots$$

$$\sqrt{75}$$

$$\sqrt{25 \cdot 3}$$

$$\sqrt{25} \cdot \sqrt{3}$$

$$5\sqrt{3}$$



Pg. 1008

3-4

$$\sqrt{20}$$

$$\sqrt{4 \cdot 5}$$

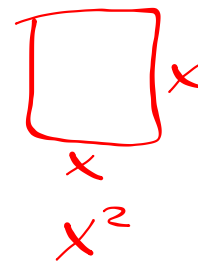
$$2\sqrt{5}$$

$$x^2 = 18$$

$$x = \sqrt{18}$$

$$\sqrt{9 \cdot 2}$$

$$3\sqrt{2}$$



$$\sqrt{116}$$

$$\sqrt{4 \cdot 29}$$

$$2\sqrt{29}$$

Pg. 1009

$$(x-1)^2 = 17$$

$$1 + 4.12 = 5.12 \quad x - 1 = \pm \sqrt{17}$$

$$1 - 4.12 = -3.12 \quad x = 1 \pm \sqrt{17}$$

$$(r+8)^2 = 83$$

$$r + 8 = \pm \sqrt{83}$$

$$r = -8 \pm \sqrt{83}$$

$$(17-d)^2 = 55$$

$$17 - d = \pm \sqrt{55}$$

$$-d = -17 \pm \sqrt{55}$$

$$d = 17 \pm \sqrt{55}$$