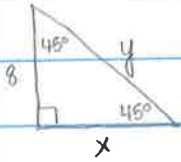


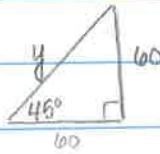
GEOMETRY (SECTION 8.2)

7.



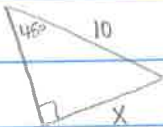
$$x = 8 \quad y = 8\sqrt{2}$$

9.



$$y = 60\sqrt{2}$$

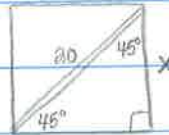
11.



$$x = \frac{10}{\sqrt{2}} = \frac{10\sqrt{2}}{\sqrt{2}\sqrt{2}}$$

$$x = \frac{10\sqrt{2}}{2} = 5\sqrt{2}$$

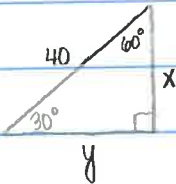
13.



$$x = \frac{20}{\sqrt{2}} = \frac{20\sqrt{2}}{\sqrt{2}\sqrt{2}}$$

$$x = \frac{20\sqrt{2}}{2} = 10\sqrt{2} = 14.1 \text{ cm}$$

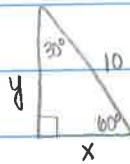
16.



$$x = \frac{40}{2}$$

$$x = 20 \quad y = 20\sqrt{3}$$

17.

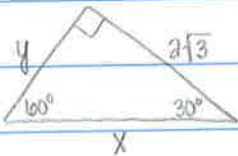


$$x = \frac{10}{2}$$

$$x = 5$$

$$y = 5\sqrt{3}$$

19.

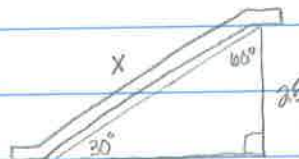


$$y = \frac{2\sqrt{3}}{\sqrt{3}}$$

$$y = 2$$

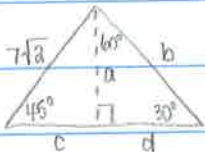
$$x = 4$$

21.



$$x = 50 \text{ ft}$$

23.



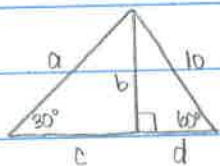
$$d = 7\sqrt{3}$$

$$b = 14$$

$$c = 7$$

$$a = 7$$

26.



$$d = \frac{10}{2}$$

$$d = 5$$

$$b = 5\sqrt{3}$$

$$c = 5\sqrt{3} \cdot \sqrt{3}$$

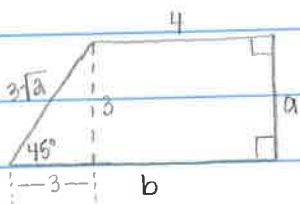
$$= 5 \cdot 3$$

$$c = 15$$

$$a = 5\sqrt{3} \cdot 2$$

$$a = 10\sqrt{3}$$

27.



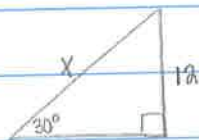
$$a = \frac{3\sqrt{2}}{\sqrt{2}}$$

$$a = 3$$

$$b = 4 + 3$$

$$b = 7$$

29.



$$x = 24 \text{ ft}$$

$$\frac{100 \text{ ft}}{1 \text{ min}} = \frac{24 \text{ ft}}{x}$$

$$100x = 24$$

$$x = .24 \text{ min}$$

$$\frac{.24 \text{ min}}{1} \cdot \frac{60 \text{ sec}}{1 \text{ min}} = 14.4 \text{ sec}$$