## Radii and Chords

1. 
$$x = 12$$
  $\checkmark$ 
2.  $x = 50^{\circ}$   $\checkmark$ 

2. 
$$x = 50^{\circ}$$
   
3.  $x = 2(8.4)$    
 $x = 16.8$ 

4. 
$$c^2 = a^2 + b^2 \checkmark$$
  
 $25^2 = 7^2 + \left(\frac{x}{2}\right)^2 \checkmark$   
 $625 - 49 + \frac{x^2}{2}$ 

$$625 = 49 + \frac{x^2}{4} \checkmark$$

$$625 - 49 = \frac{x^2}{4}$$

$$576 = \frac{x^2}{4} \checkmark$$

$$4(576) = x^2 \checkmark$$

$$\sqrt{2,304} = \sqrt{x^2} \checkmark$$

$$x = 48$$

5. 
$$x = 17$$

6. 
$$c^2 = a^2 + b^2 \checkmark$$
  
 $x^2 = 6^2 + 6^2 \checkmark$   
 $x^2 = 36 + 36 \checkmark$   
 $\sqrt{x^2} = \sqrt{72} \checkmark$ 

7. 
$$c^2 = a^2 + b^2 \checkmark$$
  
 $25^2 = 7^2 + x^2 \checkmark$ 

 $x = 6\sqrt{2}$ 

$$625 = 7 + x \checkmark$$

$$625 = 49 + x^{2} \checkmark$$

$$625 - 49 = x^{2} \checkmark$$

$$\sqrt{576} = \sqrt{x^2} \checkmark$$

$$x = 24 \checkmark$$

8. 
$$x = \frac{1}{2}(50) \checkmark$$

$$x = 25 \checkmark$$

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