

Radii and Chords

1.

x = 12

✓

2.

x = 50°

✓

3.

x = 2(8.4)

✓

x = 16.8

✓

4.

$c^2 = a^2 + b^2$

✓

$25^2 = 7^2 + \left(\frac{x}{2}\right)^2$

✓

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

✓

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

✓

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

✓

$4(576) = x^2$

✓

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

✓

x = 48

✓

5.

x = 17

✓

6.

$c^2 = a^2 + b^2$

✓

$x^2 = 6^2 + 6^2$

✓

$x^2 = 36 + 36$

✓

$\sqrt{x^2} = \sqrt{72}$

✓

$x = 6\sqrt{2}$

✓

7.

$c^2 = a^2 + b^2$

✓

$25^2 = 7^2 + x^2$

✓

$625 = 49 + x^2$

✓

$625 - 49 = x^2$

✓

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

✓

x = 24

✓

8.

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

✓

x = 25

✓

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