

Trig Review Ch. 5.1-5.4

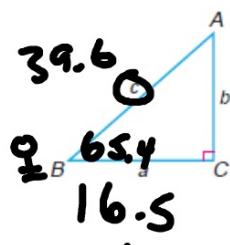
Quiz 5.3-5.4 Mon.

Test 5.1-5.4 Wed.

Lesson 5-4 (Pages 299–304)

Solve each problem. Round to the nearest tenth.

1. If $A = 38^\circ$ and $b = 15$, find a .
2. If $c = 19$ and $B = 87^\circ$, find a .
3. If $a = 16.5$ and $B = 65.4^\circ$, find c .
4. If $B = 42^\circ 30'$ and $b = 12$, find a .
5. If $B = 75^\circ$ and $c = 5.8$, find b .

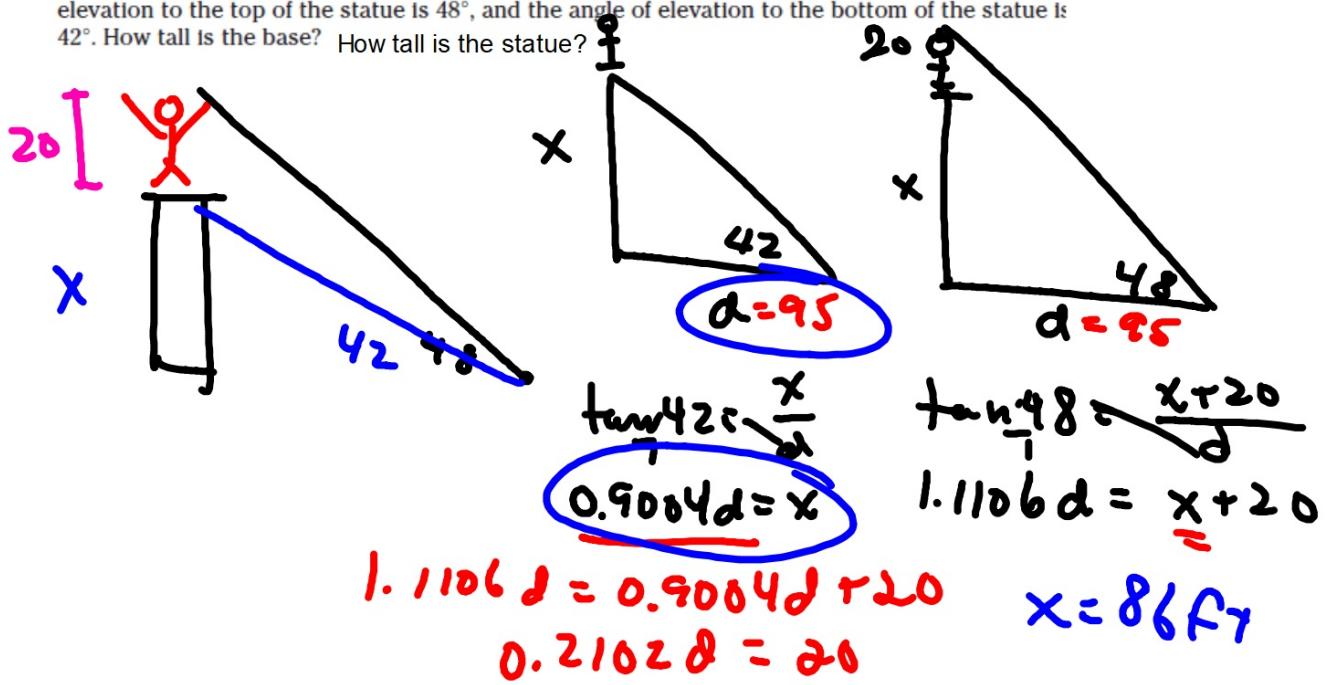


$$\cos \frac{65.4}{1} = \frac{16.5}{c}$$

$$C(.4163) = 16.5$$

A golden statue of Mrs. Kroon...

6. A statue 20 feet high stands on top of a base. From a point in front of the statue, the angle of elevation to the top of the statue is 48° , and the angle of elevation to the bottom of the statue is 42° . How tall is the base? How tall is the statue?



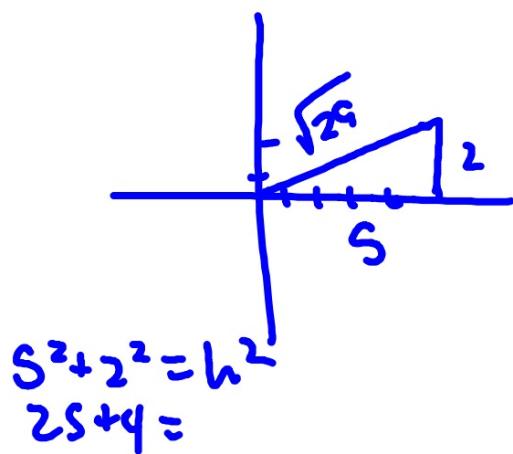
Find the values of the six trigonometric functions for angle θ in standard position if a point with the given coordinates lies on its terminal side.

3. $(-1, -2)$

4. $(-2, 2)$

5. $(5, 2)$

6. $(-4, 3)$



$$\sin \theta = \frac{2}{\sqrt{29}} = \frac{2\sqrt{29}}{29} \quad \csc \theta = \frac{\sqrt{29}}{2}$$

$$\cos \theta = \frac{5}{\sqrt{29}} = \frac{5\sqrt{29}}{29} \quad \sec \theta = \frac{\sqrt{29}}{5}$$

$$\tan \theta = \frac{2}{5} \quad \cot \theta = \frac{5}{2}$$

Lesson 5-1 (Pages 277-283)

Change each measure to degrees, minutes, and seconds.

1. 13.75°

$13^\circ 45' 0''$

2. 75.72°

$-29^\circ 26' 24''$

3. -29.44°

60 $.4 \cdot 60$

~~25.8~~
 $26''$

Write each measure as a decimal to the nearest thousandth.

5. $144^\circ 12' 30''$ 6. $-38^\circ 15' 10''$ 7. $-107^\circ 12' 45''$

$12.5'$
 144.208°

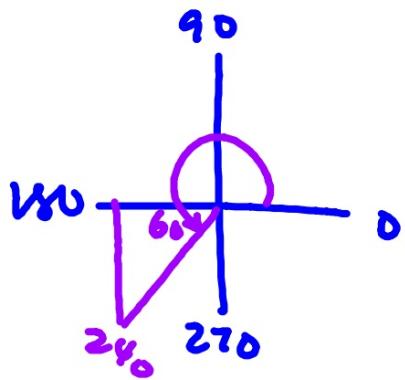
Find the measure of the reference angle for each angle.

13. 126°

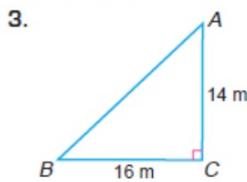
14. -480°

15. 642°

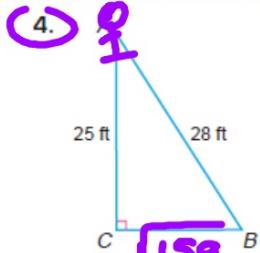
240°



Find the values of the six trigonometric functions for each $\angle A$.



$$159 \\ 3 \sqrt{53}$$



$$25^2 + x^2 = 28^2 \\ x = \sqrt{159}$$

$$\sin A = \frac{\sqrt{159}}{28} \\ \cos A = \frac{25}{28} \\ \tan A = \frac{\sqrt{159}}{25}$$

$$\csc A = \frac{28\sqrt{159}}{159} \\ \sec A = \frac{28}{25} \\ \cot A = \frac{25\sqrt{159}}{159}$$

SGR P. 336
11-39