

Trig Review Ch. 5

Quiz 5.7-5.8 today

Test is tomorrow

Lesson 5-1 (Pages 277–283)

Change each measure to degrees, minutes, and seconds.

1. 13.75°

2. 75.72°

3. -29.44°

Write each measure as a decimal to the nearest thousandth.

5. $144^{\circ} 12' 30''$

6. $-38^{\circ} 15' 10''$

7. $-107^{\circ} 12' 45''$

Find the measure of the reference angle for each angle.

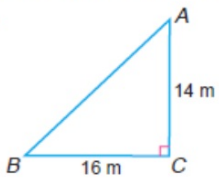
13. 126°

14. -480°

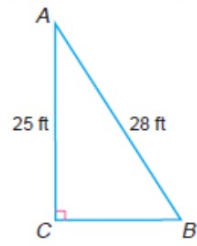
15. 642°

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

3.



4.



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. $(-2, 2)$

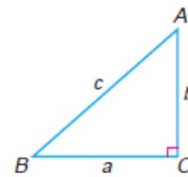
5. $(5, 2)$

6. $(-4, 3)$

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 .



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?

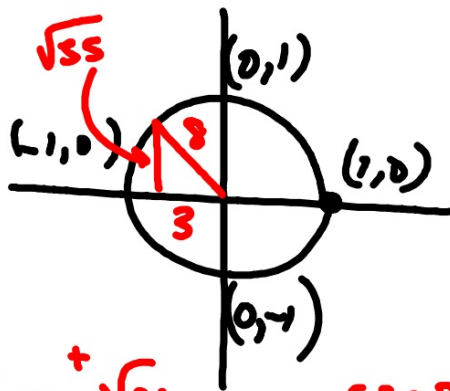
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35.

$$\cos = -\frac{3}{8}$$

$$x^2 + y^2 = 8^2$$

$$9 + y^2 = 64$$



$$\sin \theta = \frac{\sqrt{55}}{8}$$

$$\cos \theta = -\frac{3}{8}$$

$$\tan \theta = \frac{\sqrt{55}}{3}$$

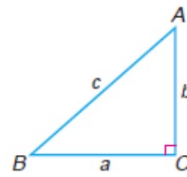
$$\csc \theta = \frac{8\sqrt{55}}{\sqrt{55}\sqrt{55}} = \frac{8\sqrt{55}}{55}$$

$$\sec \theta = -\frac{8}{3}$$

$$\cot \theta = \frac{3\sqrt{55}}{55}$$

Solve each problem. Round to the nearest tenth.

4. If $a = 38$ and $b = 25$, find A .
5. If $c = 19$ and $b = 17$, find B .
6. If $a = 24$ and $c = 30$, find B .
7. If $c = 12.6$ and $a = 9.2$, find B .
8. If $b = 36.5$ and $a = 28.4$, find A .



Lesson 5-6 (Pages 313–318)

Solve each triangle. Round to the nearest tenth.

1. $A = 75^\circ, B = 50^\circ, a = 7$

Find the area of each triangle.

5. $A = 34^\circ$, $b = 12$, $c = 6$

7. $a = 8$, $B = 60^\circ$, $C = 75^\circ$

$$K = \frac{1}{2} ab \sin C$$

Lesson 5-8 (Pages 327–332)

Solve each triangle. Round to the n

1. $b = 6, c = 8, A = 62^\circ$

3. $B = 48^\circ, c = 18, a = 14$

Find the area of each triangle. Round to the nearest tenth.

5. $a = 4, b = 7, c = 10$

6. $a = 4, b = 6, c = 5$

$$s = \frac{1}{2}(a + b + c)$$

$$\sqrt{s(s-a)(s-b)(s-c)}$$

