

PRACTICE Quiz 1.3-1.4 Trigonometric Functions of Acute Angles**Use identities to find the value of each expression.**1) Find $\cot \theta$ and $\sin \theta$

if $\csc \theta = -\frac{8}{5}$ and $\tan \theta < 0$.

2) Find $\sin \theta$ and $\sec \theta$

if $\tan \theta = -4$ and $\cos \theta > 0$.

3) Find $\csc \theta$ and $\tan \theta$

if $\sin \theta = -\frac{5}{6}$ and $\cot \theta < 0$.

4) Find $\sec \theta$ and $\cot \theta$

if $\csc \theta = 2$ and $\tan \theta > 0$.

In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.5) Find $\tan A$ if $b = 8$, $c = 10$ 6) Find $\cot A$ if $c = 5\sqrt{2}$, $a = 5$ 7) Find $\sin A$ if $a = 15$, $c = 17$ 8) Find $\cos A$ if $a = 8$, $b = 6$

PRACTICE Quiz 1.3-1.4 Trigonometric Functions of Acute Angles

Use identities to find the value of each expression.

1) Find $\cot \theta$ and $\sin \theta$

if $\csc \theta = -\frac{8}{5}$ and $\tan \theta < 0$.

$$-\frac{\sqrt{39}}{5} \text{ and } -\frac{5}{8}$$

2) Find $\sin \theta$ and $\sec \theta$

if $\tan \theta = -4$ and $\cos \theta > 0$.

$$-\frac{4\sqrt{17}}{17} \text{ and } \sqrt{17}$$

3) Find $\csc \theta$ and $\tan \theta$

if $\sin \theta = -\frac{5}{6}$ and $\cot \theta < 0$.

$$-\frac{6}{5} \text{ and } -\frac{5\sqrt{11}}{11}$$

4) Find $\sec \theta$ and $\cot \theta$

if $\csc \theta = 2$ and $\tan \theta > 0$.

$$\frac{2\sqrt{3}}{3} \text{ and } \sqrt{3}$$

In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

5) Find $\tan A$ if $b = 8$, $c = 10$

$$\frac{3}{4}$$

6) Find $\cot A$ if $c = 5\sqrt{2}$, $a = 5$

$$1$$

7) Find $\sin A$ if $a = 15$, $c = 17$

$$\frac{15}{17}$$

8) Find $\cos A$ if $a = 8$, $b = 6$

$$\frac{3}{5}$$