

Trigonometry HW 3

1) Find exact values of the following:

(a) $\cos(90^\circ)$

(b) $\csc(180^\circ)$

(c) $\cos(30^\circ)$

2) Find exact values of the following:

(a) $\tan(45^\circ)$

(b) $\sin(45^\circ)$

(c) $\tan(60^\circ)$

3) Find exact values of the following:

(a) $\sec(60^\circ)$

(b) $\sin(270^\circ)$

(c) $\tan(180^\circ)$

4) Find exact values of the following:

(a) $\tan(30^\circ)$

(b) $\cot(0^\circ)$

(c) $\sec(30^\circ)$

4) Draw an angle with the given measure in standard position.

(a) -450°

(b) -20°

(c) -275°

(d) 250°

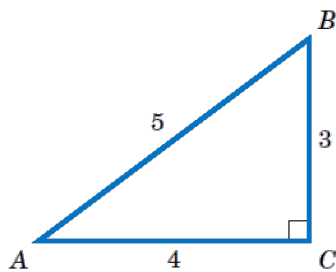
Challenge

Solve the following *ACT* problems:

(a) If the hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches long, how long is the other leg?

(b) Angle A is an acute angle and $\sin(A) = \frac{11}{14}$. What is the value of $\cos(A)$?

(c) In the right triangle ABC below, what is the cosine of angle A ?



(d) Which of the following is equal to $\sqrt{45}$

(i) 15

(ii) $5\sqrt{3}$

(iii) $9\sqrt{5}$

(iv) $3\sqrt{5}$

(v) 3