1 – Which quadrant(s) can θ be in if $\sec\theta < 0$?

a. I, IV
b. II, III
c. III, IV
d. II

2 – Which quadrant(s) can θ be in if $\cot\theta < 0$ and $\sin\theta > 0$?

a. II
b. II, III
c. II, IV
d. I, IV

3 – Which of the following angles has a sin equal to 0 ?

a. $\frac{\pi}{4}$

b. $\frac{\pi}{2}$

c. $\frac{5\pi}{6}$

d. π

4 – For which of the following values does the secant function not exist?

a. 0°
b. 45°
c. 90°
d. 150°

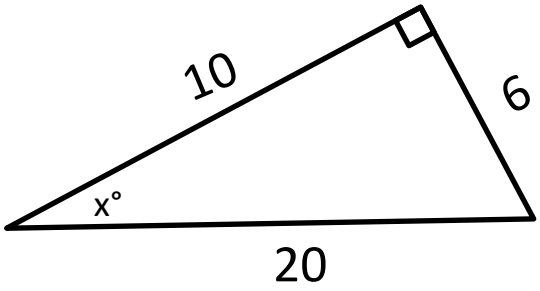
5 –Which of the following expressions can be used to find the value of 'x' in the right triangle?

a. x° $= tan^{-1}\frac{3}{10}$

b. x° $= sin^{-1}\frac{1}{2}$

c. x° $= cos^{-1}\frac{1}{2}$

d. x° $= tan^{-1}\frac{5}{3}$



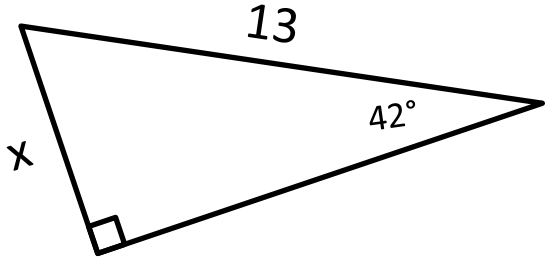
6 – Which of the following expressions can be used to find the value of 'x' in the right triangle?

a. $x = \frac{13}{\cos(42°)}$

b. $x = \frac{\tan(42°)}{13}$

c. $x = \frac{13}{\sin(42°)}$

d. $x = 13sin(42°)$



Answers:

1. b
2. a
3. d
4. c
5. c
6. d