

14. What is the value of $\sin A$ and $\cos B$ in figure 2?

a) $\sin A = \frac{32}{40}$ $\cos B = \frac{24}{40}$

b) $\sin A = \frac{24}{32}$ $\cos B = \frac{32}{24}$

c) $\sin A = \frac{24}{40}$ $\cos B = \frac{32}{40}$

d) $\sin A = \frac{24}{40}$ $\cos B = \frac{24}{40}$

15. Which one of the following is not a Pythagorean identity?

a) $\sin^2\theta = 1 - \cos^2\theta$

b) $\sec^2\theta = 1 - \tan^2\theta$

c) $\csc^2\theta = 1 - \cot^2\theta$

d) $\cot^2\theta = 1 - \cos^2\theta$

16. The expression $\frac{\tan\theta}{\sec\theta}$ is equivalent to

a) $\csc\theta$

b) $\sin\theta$

c) $\cos\theta$

d) $\sec\theta$

17. Find the measure of unknown angles in the figure 3.

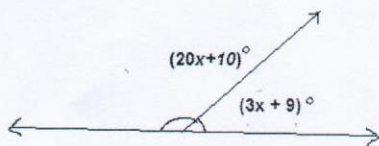


Figure- 3

a) 150° and 30°

b) 120° and 20°

c) 160° and 30°

d) 150° and 20°
