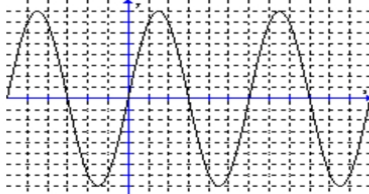


Review for AAT TEST - Right Triangle Trig and Graphs of Trig functions

1. Match the graph with the correct function.

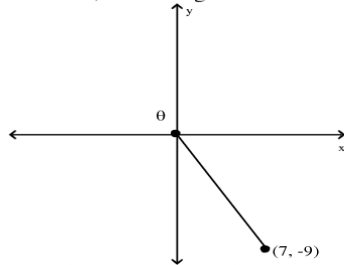


- a. $f(x) = 4 \sin 2x$ b. $f(x) = 2 \sin 4x$
 c. $f(x) = 4 \cos 4x$ d. $f(x) = 2 \cos 2x$

2. The length of the shadow of a 200 foot tower is 70 feet. Find the angle of elevation of the sun.

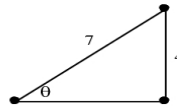
- a. 65.4° b. 70.7° c. 73.2° d. 75.1° e. None of these

3. Find $\sin \theta$, for the angle θ shown.



- a. $-\frac{9\sqrt{130}}{130}$ b. $\frac{\sqrt{130}}{7}$ c. $-\frac{7}{9}$ d. $-\frac{9}{7}$
 e. $\frac{7\sqrt{130}}{130}$

4. Using the right triangle, find the exact value for $\cos x$.



- a. $\frac{4}{7}$ b. $\frac{7}{4}$ c. $\frac{\sqrt{33}}{4}$ d. $\frac{4\sqrt{33}}{33}$ e. None of these

5. Given $\sin \theta = -\frac{1}{5}$ and $\tan \theta < 0$, find $\cos \theta$.

- a. $-\frac{\sqrt{26}}{5}$ b. $\frac{\sqrt{26}}{5}$ c. $-\frac{2\sqrt{6}}{5}$ d. $\frac{2\sqrt{6}}{5}$
 e. None of these

6. A right triangle has an acute angle θ such that $\cot \theta = 15$. Find the exact value of $\cos \theta$.

- a. $\sqrt{226}$ b. $\frac{\sqrt{226}}{226}$ c. $\frac{15\sqrt{226}}{226}$ d. $\frac{\sqrt{226}}{15}$
 e. None of these