



1. Which of the following is equal to $\cos 35^\circ$

A) $\sin 35^\circ$

B) $\cos 55^\circ$

C) $\sin 55^\circ$

D) $\cos 145^\circ$

2. Which of the following is equal to $\sin 8^\circ$

A) $\sin 82^\circ$

B) $\cos 8^\circ$

C) $\cos 82^\circ$

D) $\sin 98^\circ$

3. Which of the following statements is false?

A) $\sin 45^\circ = \cos 45^\circ$

B) $\sin 30^\circ = \cos 30^\circ$

C) $\cos 10^\circ = \sin 80^\circ$

D) $\sin 0^\circ = \cos 90^\circ$

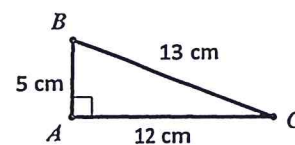
4. Given the ratio $\frac{12}{13}$, which of the following is NOT equal to this value?

A) $\sin \angle B$

B) $\cos \angle C$

C) $\frac{AC}{BC}$

D) $\sin \angle C$



5. If $\cos \theta = \sin \beta$ then which of the following must be true?

A) $\theta + \beta = 180^\circ$

B) $\theta - \beta = 90^\circ$

C) $\beta = 90^\circ - \theta$

D) $\beta - \theta = 90^\circ$

6. Solve the following.

a) $\sin 27^\circ = \cos \underline{\hspace{1cm}}^\circ$

b) $\cos 55^\circ = \sin \underline{\hspace{1cm}}^\circ$

c) $\sin 17.8^\circ = \cos \underline{\hspace{1cm}}^\circ$

d) $\cos 90^\circ = \sin \underline{\hspace{1cm}}^\circ$

e) $\cos 45^\circ = \sin \underline{\hspace{1cm}}^\circ$

f) $\sin 62\frac{2}{3}^\circ = \cos \underline{\hspace{1cm}}^\circ$

7. Solve for the unknown.

a) $\sin (2x + 1^\circ) = \cos (22^\circ)$

b) $\sin (5x + 15^\circ) = \cos (4x - 6^\circ)$

c) $\sin (2x) = \cos (x)$

d) $\sin \left(\frac{1}{2}x\right) = \cos \left(\frac{5}{2}x + 12\right)$

e) $\sin (7x + 15^\circ) = \cos (3x + 40^\circ)$

f) $\sin \left(\frac{1}{3}x + 2\right) = \cos (53^\circ)$

8. Explain WHY $\sin 20^\circ = 0.342$ and the $\cos 70^\circ = 0.342$.