TRIGONOMETRY PRACTICE TEST

This test consists of 20 questions. While you may take as much as you wish, it is

$\frac{3}{3}$ B) $\frac{3}{2}$ C) $\frac{2}{2}$ D) $\frac{1}{2}$ E) none of the above

2. What is the radian measure of the angle whose degree measure are $240°$?

A) $\frac{4}{3}\pi$ B) $\frac{11}{6}\pi$ C) $\frac{11}{12}\pi$ D) $\frac{\pi}{6}$ E) $\frac{5}{3}\pi$

3. If $\sin\theta = \frac{3}{5}$ and $\cos\theta = \frac{4}{5}$, then θ lies in

A) quadrant I   B) quadrant II

$\frac{\pi}{2}$

5. If the coordinates (x, y) of the point p in the figure are (2,2), then than tan(a)=

A) 1 3

B) 3 4

C) 3 10

D) 1 10

E) 1

6. The graph of the function y=tan $(x-\pi)$ has asymptotes at

A) x=0 and x=π B) x=π and x=2π

C) x=$\frac{\pi}{2}$ and x=

(A)   (B)

(C)   (D)   (E)

8. The exact value of $\tan 45°$ is

A) -1 B) 1 C) $\frac{1}{2}\sqrt{2}$ D) $-\frac{1}{2}\sqrt{2}$ E) $\frac{3\pi}{4}$

9. The exact value of $\sin^2\left(\frac{\pi}{4}\right)+\frac{}{2}$

14. Which of the following is the graph of y=sin4x?

(A)   (B)

(C)   (D)

(E)

15. For which angles θ, with $0° \leq \theta \leq 180°$, is $\sin 2\theta = -1$?
A) 30° and 150°   B) 60° and 120°   C) 135°   D) 0° and 120°   E) none

16. If $2\sin\theta$ - ﹀

Solution:

1. D)
2. A)
3. A)
4. A)
5. E)
6. C)
7. B)
8. B)
9. B)
10. A)
11. D)
12. D)
13. D)
14. D)
15. C)
16. B)
17 A)
18 E)
19) A)
20)C