Math Xb—Spring 2004
Sine, cosine, and tangent of standard angles

1. The value of $\tan(11\pi/6)$ is equal to:

   (a) $\sqrt{3}$
   (b) $-1/\sqrt{3}$
   (c) $1/\sqrt{3}$

   (d) $-\sqrt{3}$

   (e) None of the above.

2. The value of $\cos(5\pi/6)$ is equal to:

   (a) $1/2$
   (b) $-1/2$
   (c) $-\sqrt{3}/2$

   (d) $\sqrt{3}/2$

   (e) None of the above.

3. The value of $\tan(5\pi/6)$ is equal to:

   (a) $\sqrt{3}$
   (b) $1/\sqrt{3}$
   (c) $-\sqrt{3}$

   (d) $-1/\sqrt{3}$

   (e) None of the above.

4. The value of $\sin(11\pi/4)$ is equal to:

   (a) $1/\sqrt{2}$
   (b) $\sqrt{2}$
   (c) $-\sqrt{2}$

   (d) $-1/\sqrt{2}$

   (e) None of the above.

5. The value of $\tan(3\pi/2)$ is equal to:

   (a) 1
   (b) -1
   (c) 0

   (d) $-1/\sqrt{3}$

   (e) None of the above.

6. The value of $\cos(-5\pi/3)$ is equal to:

   (a) $\sqrt{3}$
   (b) $-\sqrt{3}$
   (c) $1/\sqrt{3}$

   (d) $-1/\sqrt{3}$

   (e) None of the above.

7. The value of $\sin(-7\pi/6)$ is equal to:

   (a) $1/2$
   (b) $-1/2$
   (c) $\sqrt{3}/2$

   (d) $/\sqrt{3}/2$

   (e) None of the above.

8. The value of $\tan(-3\pi/4)$ is equal to:

   (a) $\sqrt{3}$
   (b) 1
   (c) $1/\sqrt{3}$

   (d) -1

   (e) None of the above.

9. The value of $\cos(7\pi/4)$ is equal to:

   (a) $\sqrt{2}$
   (b) $-\sqrt{2}$
   (c) $1/\sqrt{2}$

   (d) $-1/\sqrt{2}$

   (e) None of the above.

10. The value of $\sin(-11\pi/4)$ is equal to:

    (a) $\sqrt{2}$
    (b) $-\sqrt{2}$
    (c) $1/\sqrt{2}$

    (d) $-1/\sqrt{2}$

    (e) None of the above.

Answers

1. b	3. d	5. e	7. a	9. c
2. c	4. a	6. e	8. b	10. d