

MAT 120

Quiz 3

Fall 2018

1. Find $\cos(3\pi/4)$:

- a) 0 b)
- $-\frac{\sqrt{2}}{2}$
- c)
- $\frac{\sqrt{2}}{2}$
- d)
- $\frac{\sqrt{3}}{2}$
- e)
- $-\frac{\sqrt{3}}{2}$

Correct Answer: $-\frac{\sqrt{2}}{2}$ 2. Find $\sin(7\pi/4)$:

- a) 0 b)
- $\frac{\sqrt{2}}{2}$
- c)
- $\frac{\sqrt{3}}{2}$
- d)
- $-\frac{\sqrt{2}}{2}$
- e)
- $-\frac{\sqrt{3}}{2}$

Correct Answer: $-\frac{\sqrt{2}}{2}$ 3. Find $\cos(6\pi/3)$:

- a) 0 b)
- $\frac{\sqrt{2}}{2}$
- c)
- $\frac{\sqrt{3}}{2}$
- d)
- $-\frac{\sqrt{2}}{2}$
- e)
- $-\frac{\sqrt{3}}{2}$

Correct Answer: 1

4. Find $\cos(5\pi/3)$:

- a) 0 b)
- $\frac{\sqrt{2}}{2}$
- c)
- $\frac{\sqrt{3}}{2}$
- d)
- $-\frac{\sqrt{2}}{2}$
- e)
- $-\frac{\sqrt{3}}{2}$

Correct Answer: $\frac{1}{2}$ 5. Find $\sin^2(7\pi/4) + \cos^2(7\pi/4)$:

- a) 1 b) 0 c)
- $\frac{\sqrt{2}}{2}$
- d)
- $\frac{\sqrt{3}}{2}$
- e)
- $-\frac{\sqrt{3}}{2}$

Correct Answer: 1

6. What is the period of the function: $\sin(8\pi t)$?

- a) 4 b) 5 c) 0.2 d) 0.25 e) 1

Correct Answer: 0.25

7. What is the frequency of the function: $\sin(8\pi t)$?

- a) 4 b) 5 c) 2 d) 20 e) 1

Correct Answer: 4

8. What is the slope of the line through the two points $(1, 0)$ and $(4, -3)$?

- a) -1 b) -2 c) 2 d) 3 e) 1

Correct Answer: -1