

1. Use a coterminal angle to find the exact value of $\cot \frac{7\pi}{3}$. Do not use a calculator.

A) 1

B) $\sqrt{3}$

C) $-\frac{\sqrt{3}}{2}$

D) $-\frac{\sqrt{3}}{2}$

2. Find the exact value of the indicated trigonometric function of θ .

$\sec \theta = \frac{9}{2}$, θ is quadrant IV Find $\tan \theta$.

A) $-\sqrt{37}$

B) $-\frac{9}{2}$

C) $-\frac{\sqrt{37}}{2}$

D) $-\frac{\sqrt{37}}{9}$

3. Use the reference angle to find the exact value of the expression, do not use a calculator.

$\sin \frac{2\pi}{3}$

A) $-\frac{1}{2}$

B) $\frac{\sqrt{3}}{2}$

C) -1

D) $-\frac{\sqrt{3}}{2}$

4. If the terminal side of an angle θ , is in standard position, and passes through the point $(-12, -5)$, what is the numerical value of $\cos \theta$?

1) $-\frac{12}{13}$

2) $-\frac{5}{13}$

3) $-\frac{12}{13}$

4) $-\frac{5}{13}$

5. What statement is *incorrect* for the graph of the function $y = -5 \sin \left[\frac{\pi}{4}(x - 3) \right] + 8$?

1) The period is 8.

3) The midline is $y = -3$.

2) The amplitude is 5.

4) The range is $[3, 13]$.

6. What statement is *correct* for the graph of the function $y = -7 \cos \left[\frac{2}{3}(x + \pi) \right] - 4$?

1) The period is $\frac{\pi}{3}$.

3) The phase shift is π units to the right.

2) The amplitude is -7.

4) The range is $[-11, 3]$.

7. If $\sin^2(\theta) + \cos^2(M) = 1$, then $M =$

1) $90 - \theta$

3) θ

2) $180 - \theta$

4) θ

8. Convert each angle from radians to degrees.

a) $\theta = \frac{8\pi}{15}$

b) $\theta = 2$

c) $\theta = 7$

9. Convert each angle from degrees to radians.

a) $\theta = 315^\circ$

b) $\theta = 540^\circ$

c) $\theta = 6^\circ$

10. For each given angle, find one positive coterminal angle and one negative coterminal angle.

a) $\theta = 740^\circ$

b) $\theta = \frac{17\pi}{3}$

#11-14

a) Sketch the angle in standard position b) find the reference angle, θ' c) find all 6 trig functions of θ

11. $\theta = -225^\circ$	12. $\theta = 600^\circ$
13. $\theta = \frac{33\pi}{6}$	14. $\theta = -\frac{5\pi}{6}$

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Bruce Waldner, Meg Clemens



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