

Precalc: Unit 3A Practice Test (Sections 3.1-3.6A)



NO CALCULATORS

Find the value of each expression. Do NOT use a calculator or a unit circle reference.

1. a. $\cos\left(-\frac{19\pi}{3}\right)$
 $= \frac{1}{2}$
 b. $\sin\left(-\frac{19\pi}{3}\right)$
 $= -\frac{\sqrt{3}}{2}$

$-\frac{19\pi}{3} + \frac{24\pi}{3} = \frac{5\pi}{3}$

2. a. $\cos\left(\frac{37\pi}{4}\right)$
 $= -\frac{\sqrt{2}}{2}$
 b. $\sin\left(\frac{37\pi}{4}\right)$
 $= -\frac{\sqrt{2}}{2}$

$\frac{37\pi}{4} - \frac{32\pi}{4} = \frac{5\pi}{4}$

For each problem, an angle in standard position in the xy -plane is given in radians. A circle is centered at the origin with the given radius. What are the coordinates of the point of intersection of the terminal ray of the angle and the circle?

3. $\theta = \frac{5\pi}{3}$, $r = \frac{3}{2}$

$x = r \cdot \cos \theta$
 $= \frac{3}{2} \cdot \frac{1}{2} = \frac{3}{4}$
 $y = r \cdot \sin \theta$
 $= \frac{3}{2} \cdot \left(-\frac{\sqrt{3}}{2}\right) = -\frac{3\sqrt{3}}{4}$

$\left(\frac{3}{4}, -\frac{3\sqrt{3}}{4}\right)$

4. $\theta = -\frac{17\pi}{6}$, $r = 6$

$x = r \cdot \cos \theta = 6\left(\frac{\sqrt{3}}{2}\right) = 3\sqrt{3}$
 $y = r \cdot \sin \theta = 6\left(-\frac{1}{2}\right) = -3$

$\left(3\sqrt{3}, -3\right)$

In the xy -plane, the terminal ray of angle θ in standard position intersects a circle of radius r at the given point. What are the values of θ and r ?

5. $(-15, -15\sqrt{3})$

$x = r \cdot \cos \theta$
 $(-15) = r \cdot \left(-\frac{1}{2}\right) \cdot (-2)$
 $r = 30$
 $y = r \cdot \sin \theta$
 $(-15\sqrt{3}) = r \cdot \left(-\frac{\sqrt{3}}{2}\right) \cdot (3)$
 $r = 30$ ✓ double check

$\theta = \frac{4\pi}{3}$

6. $(-7, 7)$

$x = r \cdot \cos \theta$
 $(-7) = r \cdot \left(-\frac{\sqrt{2}}{2}\right) \cdot \left(-\frac{2}{\sqrt{2}}\right)$
 $r = 7\sqrt{2}$
 $\theta = \frac{3\pi}{4}$

For the given function f , describe the concavity of f on the interval, and if f is increasing or decreasing on the interval. Break into subintervals as needed.

7. $f(\theta) = 3 \sin \theta$, interval: $\frac{\pi}{2} < \theta < \frac{3\pi}{2}$

f is DEC on $\left(\frac{\pi}{2}, \frac{3\pi}{2}\right)$
 f is C.D. on $\left(\frac{\pi}{2}, \pi\right)$
 f is C.U. on $\left(\pi, \frac{3\pi}{2}\right)$

8. $f(\theta) = -5 \cos \theta$, interval: $\frac{\pi}{2} < \theta < \frac{3\pi}{2}$

f is INC on $\left(\frac{\pi}{2}, \pi\right)$
 f is DEC on $\left(\pi, \frac{3\pi}{2}\right)$
 f is C.D. on $\left(\frac{\pi}{2}, \frac{3\pi}{2}\right)$

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