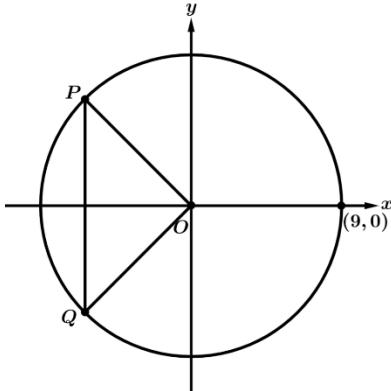


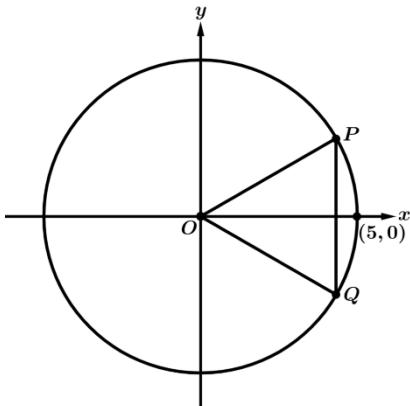
1. The figure above shows a circle of radius 3 along with the equilateral triangle PQO . Which of the following gives the coordinates of point Q ?

- (A) $\left(3 \cos \frac{7\pi}{6}, 3 \sin \frac{7\pi}{6}\right)$
- (B) $\left(3 \cos \frac{4\pi}{3}, 3 \sin \frac{4\pi}{3}\right)$
- (C) $\left(3 \cos \frac{5\pi}{3}, 3 \sin \frac{5\pi}{3}\right)$
- (D) $\left(3 \cos \frac{11\pi}{6}, 3 \sin \frac{11\pi}{6}\right)$



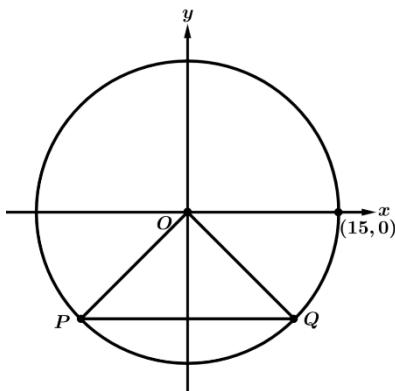
2. The figure above shows a circle of radius 9 along with the isosceles right triangle PQO . Which of the following gives the coordinates of point Q ?

- (A) $\left(9 \cos \frac{3\pi}{4}, 9 \sin \frac{3\pi}{4}\right)$
- (B) $\left(9 \cos \frac{5\pi}{6}, 9 \sin \frac{5\pi}{6}\right)$
- (C) $\left(9 \cos \frac{7\pi}{6}, 9 \sin \frac{7\pi}{6}\right)$
- (D) $\left(9 \cos \frac{5\pi}{4}, 9 \sin \frac{5\pi}{4}\right)$



3. The figure above shows a circle of radius 5 along with the equilateral triangle PQO . Which of the following gives the coordinates of point Q ?

- (A) $\left(5 \cos \frac{\pi}{6}, 5 \sin \frac{\pi}{6}\right)$
- (B) $\left(5 \cos \frac{7\pi}{6}, 5 \sin \frac{7\pi}{6}\right)$
- (C) $\left(5 \cos \frac{11\pi}{6}, 5 \sin \frac{11\pi}{6}\right)$
- (D) $\left(5 \cos \frac{5\pi}{3}, 5 \sin \frac{5\pi}{3}\right)$



4. The figure above shows a circle of radius 15 along with the isosceles right triangle PQO . Which of the following gives the coordinates of point Q ?

- (A) $\left(15 \cos \frac{\pi}{4}, 15 \sin \frac{\pi}{4}\right)$
- (B) $\left(-15 \cos \frac{\pi}{4}, 15 \sin \frac{\pi}{4}\right)$
- (C) $\left(15 \cos \frac{\pi}{4}, -15 \sin \frac{\pi}{4}\right)$
- (D) $\left(-15 \cos \frac{\pi}{4}, -15 \sin \frac{\pi}{4}\right)$

Directions: Find the exact values of the following expressions.

$$5. \sin \frac{3\pi}{2} =$$

$$6. \cos 2\pi =$$

$$7. \cos \frac{\pi}{2} =$$

$$8. \sin \pi =$$

$$9. \cos 0 =$$

$$10. \sin \frac{\pi}{2} =$$

$$11. \sin \frac{-\pi}{2} =$$

$$12. \cos 3\pi =$$

Directions: Find the exact values of the following expressions.

$$13. \sin \frac{3\pi}{4}$$

$$14. \cos \frac{\pi}{3}$$

$$15. \cos \frac{7\pi}{6}$$

$$16. \sin \frac{2\pi}{3}$$

$$17. \sin \frac{\pi}{6}$$

$$18. \cos \frac{5\pi}{4}$$

$$19. \cos 2\pi$$

$$20. \sin 2\pi$$

$$21. \cos \frac{5\pi}{6}$$

$$22. \cos \frac{11\pi}{6}$$

$$23. \sin \frac{7\pi}{4}$$

$$24. \sin \frac{7\pi}{6}$$