Coterminal Angles Practice Problems

For each angle, state the quadrant in which the terminal side lies, one positive coterminal angle, and one negative coterminal angle. If angle is in degrees, give answers in degrees. If in radians, give answers in radians.

1) $45°$

2) $-140°$

3) $260°$

4) $84°$

5) $-45°$

6) $\dfrac{5\pi}{12}$

7) $\dfrac{3\pi}{4}$

8) $\dfrac{5\pi}{3}$

9) $\dfrac{7\pi}{6}$

10) $\dfrac{11\pi}{4}$

Answers to Coterminal Angles Practice Problems

1) 405° and −315° Quadrant I

2) 220° and −500° Quadrant III

3) 620° and −100° Quadrant III

4) 444° and −276° Quadrant I

5) 315° and −405° Quadrant IV

6) $\dfrac{29\pi}{12}$ and $-\dfrac{19\pi}{12}$ Quadrant I

7) $\dfrac{11\pi}{4}$ and $-\dfrac{5\pi}{4}$ Quadrant II

8) $\dfrac{11\pi}{3}$ and $-\dfrac{\pi}{3}$ Quadrant IV

9) $\dfrac{19\pi}{6}$ and $-\dfrac{5\pi}{6}$ Quadrant III

10) $\dfrac{3\pi}{4}$ and $-\dfrac{5\pi}{4}$ Quadrant II