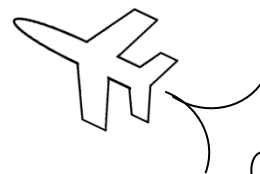


Math on the Fly!



NAME: _____ DATE: _____

Coterminal Angles

Find four angles in degrees (two positive, two negative),
that are coterminal to each angle below.

1. -370°

2. $-\frac{\pi}{2}$

3. -100°

4. 30°

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

6. $\frac{5\pi}{4}$

7. 330°

8. 405°

SOLUTIONS

There are many solutions to each problem.
Below, we show the most common solutions.

$$1. \quad -370^\circ \{ -1090^\circ, -730^\circ, -10^\circ, 350^\circ, 710^\circ \}$$

$$2. \quad \frac{-\pi}{2} = -90^\circ \{ -810^\circ, -450^\circ, 270^\circ, 630^\circ \}$$

$$3. \quad -100^\circ \{ -820^\circ, -460^\circ, 260^\circ, 620^\circ \}$$

$$4. \quad 30^\circ \{ -690^\circ, -330^\circ, 390^\circ, 750^\circ \}$$

$$5. \quad \frac{2\pi}{3} = 120^\circ \{ -600^\circ, -240^\circ, 480^\circ, 840^\circ \}$$

$$6. \quad \frac{5\pi}{4} = 225^\circ \{ -495^\circ, -135^\circ, 585^\circ, 945^\circ \}$$

$$7. \quad 330^\circ \{ -390^\circ, -30^\circ, 690^\circ, 1050^\circ \}$$

$$8. \quad 405^\circ \{ -675^\circ, -315^\circ, 45^\circ, 765^\circ, 1125^\circ \}$$