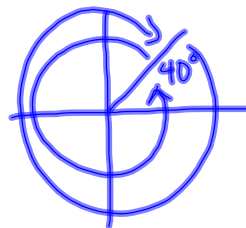


Section 4.1 continued

Coterminal Angles ; radian measure
d general form

ex.1) coterminal angles for
 40° $-360 \leq x \leq 360^\circ$



$$40^\circ + 360^\circ = 400^\circ$$

$$40^\circ - 360^\circ = -320^\circ$$

outside domain

ex.2) List all angles coterminal
to -80° .

$$-80 + 360, + 360, + 360 \dots$$

$$-80 - 360, - 360, - 360 \dots$$

$$x = -80^\circ \pm 360^\circ n, n \in \mathbb{I}$$

ex.3) List all angles coterminal
to $\frac{2\pi}{3}$.

$$x = \frac{2\pi}{3} \pm 2\pi n, n \in \mathbb{I}$$

ex. 4) Determine the coterminal angles
for $\frac{\pi}{2}$, $-4\pi \leq x \leq 4\pi$

$$\frac{\pi}{2} + 2\pi = \boxed{\frac{5\pi}{2}}$$

$$\frac{5\pi}{2} + 2\pi = \frac{9\pi}{2} \text{ too high}$$

$$\frac{\pi}{2} - 2\pi = \boxed{-\frac{3\pi}{2}}$$

$$-\frac{3\pi}{2} - 2\pi = \boxed{-\frac{7\pi}{2}}$$

$$x = \frac{5\pi}{2}, -\frac{3\pi}{2}, -\frac{7\pi}{2}$$

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