

Warm-up #1:
Solving Equations & Unit Circle

Solve:

1. $6n^2 + 5 = 29$

$$\begin{aligned} \frac{6n^2 + 5}{-5} &= \frac{29}{-5} \\ \frac{6n^2}{6} &= \frac{24}{6} \\ \sqrt{n^2} &= \sqrt{4} \\ n &= \pm 2 \end{aligned}$$

2. $p^2 = 12p - 35$

$$p^2 - 12p + 35 = 0$$

$$(p - 7)(p - 5) = 0$$

$$p = 7, 5$$

Find theta in terms of radians: $[0, 2\pi)$

3. $\cos\theta = \frac{\sqrt{2}}{2}$

$$\theta = \frac{\pi}{4}, \frac{7\pi}{4}$$

4. $\tan\theta = -1$

$$\theta = \frac{3\pi}{4}, \frac{7\pi}{4}$$