

Warm-up #1:  
Solving Equations & Unit Circle

Solve:

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

$$6n^2 = 24$$

$$n^2 = 4$$

$$n = \pm 2$$

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

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

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

$$p - 7 = 0 \quad p - 5 = 0$$

$$p = 7$$

$$p = 5$$

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

include  
don't include

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

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

4.  $\tan\theta = -1$

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