Warm-up #2:
Solving Equations & Unit Circle

Solve:

1. $100n^2 - 9 = 27$

$\frac{100n^2}{100} = \frac{36}{100}$

$\sqrt{n^2} = \sqrt{\frac{9}{25}}$

$n = \pm\frac{3}{5}$

2. $p^2 + 10p = -16$

$p^2 + 10p + 16 = 0$

$(p+8)(p+2) = 0$

$p = -8, -2$

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

3. $\sin\theta = \frac{-1}{2}$

$\theta = \frac{7\pi}{6}, \frac{11\pi}{6}$

4. $\cot\theta = \sqrt{3}$

$\theta = \frac{\pi}{6}, \frac{7\pi}{6}$