## Warm-up:

State, in radians, the reference angle for each of the following.

1. 
$$\frac{5\pi}{6}$$

2. 
$$\frac{5\pi}{6}$$

2. 
$$\frac{5\pi}{6}$$
 3.  $\frac{8\pi}{15}$ 

4. What's the period for 
$$y = -2 + 4\sin^2(x - \frac{\pi}{2})$$

5. What's the phase shift for 
$$y = -2 + 4\sin(2x + \frac{\pi}{2})$$

6. Graph: 
$$y = 2\cos x - \sin 2x$$