State the Period and Amplitude for each Cosine Function.

1. $y = -8\cos 11x$

Period =

Amplitude =

2. $y = 7\cos\frac{2x}{5}$

Period =

Amplitude =

3. Do problem #3 on page 746   Period=   Amplitude=

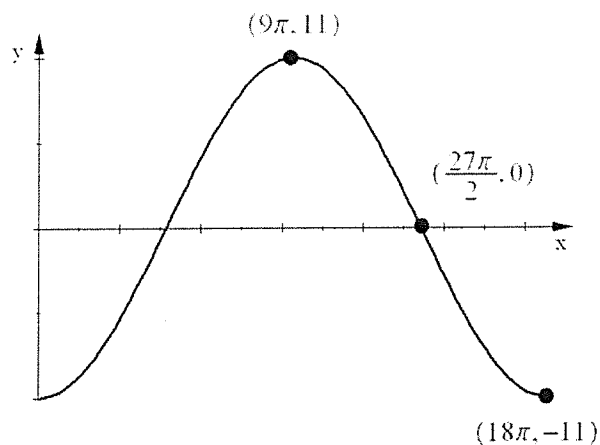Max(s) occur at x =   Min(s) occur at x=   Zero(s) occur at x=

Sketch on period of each Cosine function. Label the coordinates for all max, min, and x-intercepts.

4. $y = 5\cos\frac{x}{6}$

5. $y = -3\cos 9x$

Write the equation of each Cosine Function.

6.

$(9\pi, 11)$

$\left(\frac{27\pi}{2}, 0\right)$

$(18\pi, -11)$

7.

$\left(\frac{\pi}{28}, 0\right)$

$\left(\frac{3\pi}{28}, 0\right)$

$\left(\frac{\pi}{14}, -6\right)\pi$