7.2General Sinusoidal Graphs
Name:_____

Sketch two complete cycles of each graph.
Label all critical points.
State the domain and range of each graph.

1. $y = 7 + 4\cos 3\left(\theta - 10^o\right)$ (degrees)

2. $y = -3 + 5\sin\left(\theta + 200^o\right)$ (degrees)

3. $y = 2 + 6\sin\frac{\pi}{4}\left(x - 1\right)$ (radians)

4. $y = 23 + 30\cos\frac{1}{5}\left(x - \pi\right)$ (radians)

5. $y = 5\cos\left(3x - \frac{\pi}{4}\right)$ (radians)

6. $y = 15 - 2\cos\frac{3}{2}\left(\theta + \frac{\pi}{2}\right)$ (radians)

7. $y = 8 - \sin\left(2x + \pi\right)$ (radians)

8. $y = -2 + 5\cos\frac{\pi}{15}\left(x + 5\right)$ (radians)

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Notes:

$$y = -3 + 5\cos\frac{2}{3}\left(\theta + 150\right)$$

$$y = 5 - 6\cos\frac{\pi}{5}\left(x - 2\right)$$

$$y = -\sin(3x + \frac{\pi}{2}) + 1$$

General Sinusoidal Graphs Key

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