





Answers:

$$y = 2\sin(4x) - 3 \qquad (6\sqrt{3}, -6) \qquad \pi$$

$$(-6, 6\sqrt{3}) \qquad 2 \qquad \frac{4\pi}{9}$$

$$(6, 6\sqrt{3}) \qquad 8\pi \qquad 8$$

$$\frac{2\pi}{3} \qquad 3 \qquad y = 3\sin\left(\frac{1}{2}x\right)$$