

p394 29-55, skip divisible by 4

1. Construct a sinusoid with the given amplitude and period that goes through the given point.

$$\text{Amplitude} = 3.2$$

$$\text{period} = \frac{\pi}{7}$$

$$\text{point: } (5, 0)$$

2. State the amplitude, period, phase shift, and vertical translation relative to the basic function.

$$y = 3 \sin(x + 3) - 2$$

$$y = \frac{2}{3} \cos\left(\frac{x-3}{4}\right) + 1$$

3. Describe the transformations required to obtain the graph of y_2 from the graph of y_1 .

$$y_1 = 3 \sin \frac{2\pi x}{3}$$

$$y_2 = 2 \sin \frac{\pi x}{3}$$