Exercise 170

For the following exercises, find a. the amplitude, b. the period, and c. the phase shift with direction for each function.

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

Solution

The amplitude is 2, the (positive) coefficient of the cosine function.

The period is 2π divided by 1, the coefficient of x, which is 2π.

The phase shift is $\pi/3$ units to the right.