

MHF 4UI UNIT 5

Trigonometric Functions

Day 5 - Graphing Trig Functions (Part III)

Period Changes

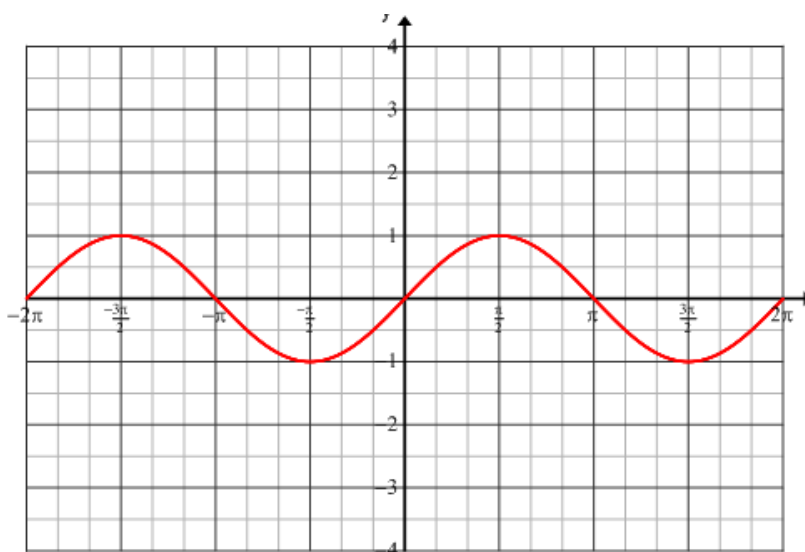
Period Changes

Example: Graph each of the following:

$$y = a \sin(k(\theta - c) + d)$$

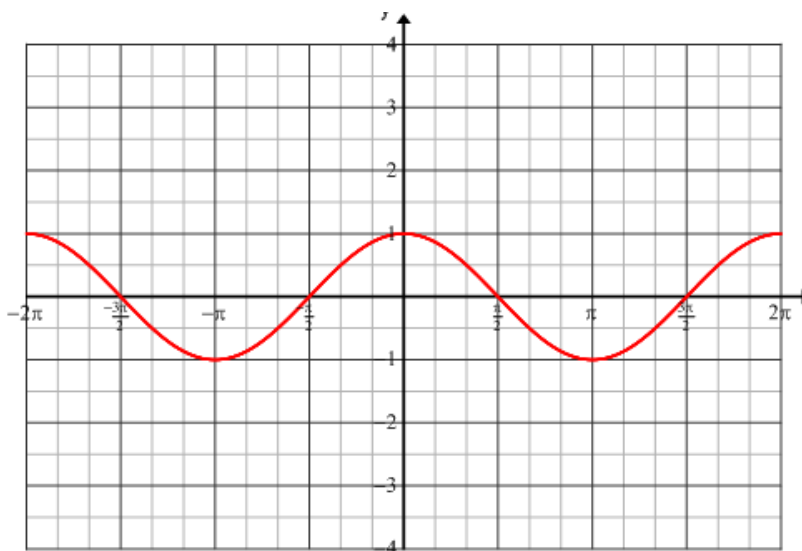
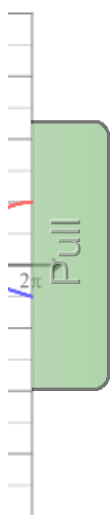
a) $y = \sin(2\theta)$

** Period = $2\pi \div k$



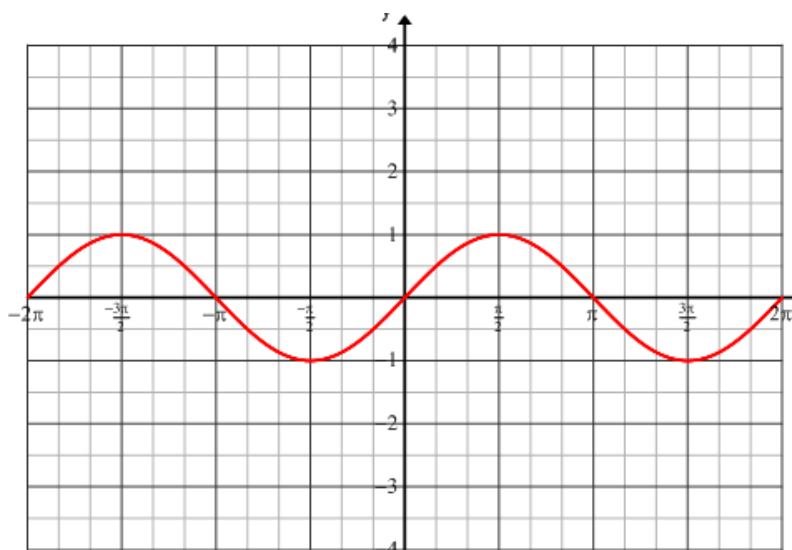
Pull

$$b) \cos\left(\frac{1}{3}\theta\right)$$



$$c) 3 \sin \left(2 \left(\theta + \frac{\pi}{4} \right) \right) - 1$$

Pull



$$d) \frac{1}{2} \cos\left(3\left(x - \frac{\pi}{3}\right)\right) + 2$$

Pull

