

Horizontal Review

Given the equations, describe the transformations.

$$y = \sin \frac{1}{8}x$$

$$y = \sin 6(\theta - 75^\circ)$$

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

$$* y = -2 \sin 3 \left(x - \frac{\pi}{4} \right) - 5$$

Describe the transformation:

$$y = \sin \frac{1}{3} \theta$$

$$y = \cos(\theta + 40^\circ)$$

$$y = 5\cos(\theta - 60^\circ)$$

Write the equation based off of the following transformations:

Sine curve

h.d. of $\frac{1}{4}$

Cosine curve

h.t. of 45°

Sine curve

Period = 720°

h.t of 85°

Cosine curve

Period = 36°

h.t of -22°

Write the equation based off of the following transformations:

$$\text{h.d. } 3$$

$$\text{h.t. } -\frac{\pi}{6}$$

$$P = 20^\circ$$

$$\text{h.t. } 45^\circ$$

$$P = \frac{\pi}{4}$$

$$\text{h.d. } \frac{1}{5}$$

$$\text{h.t. } \frac{2\pi}{3}$$

$$\text{h.t. } 80^\circ$$

$$P = 540^\circ$$

Graph:

$$y = \sin 4\theta$$

$$y = \cos(\theta + 180^\circ)$$

$$y = \sin 6(\theta - 90^\circ)$$

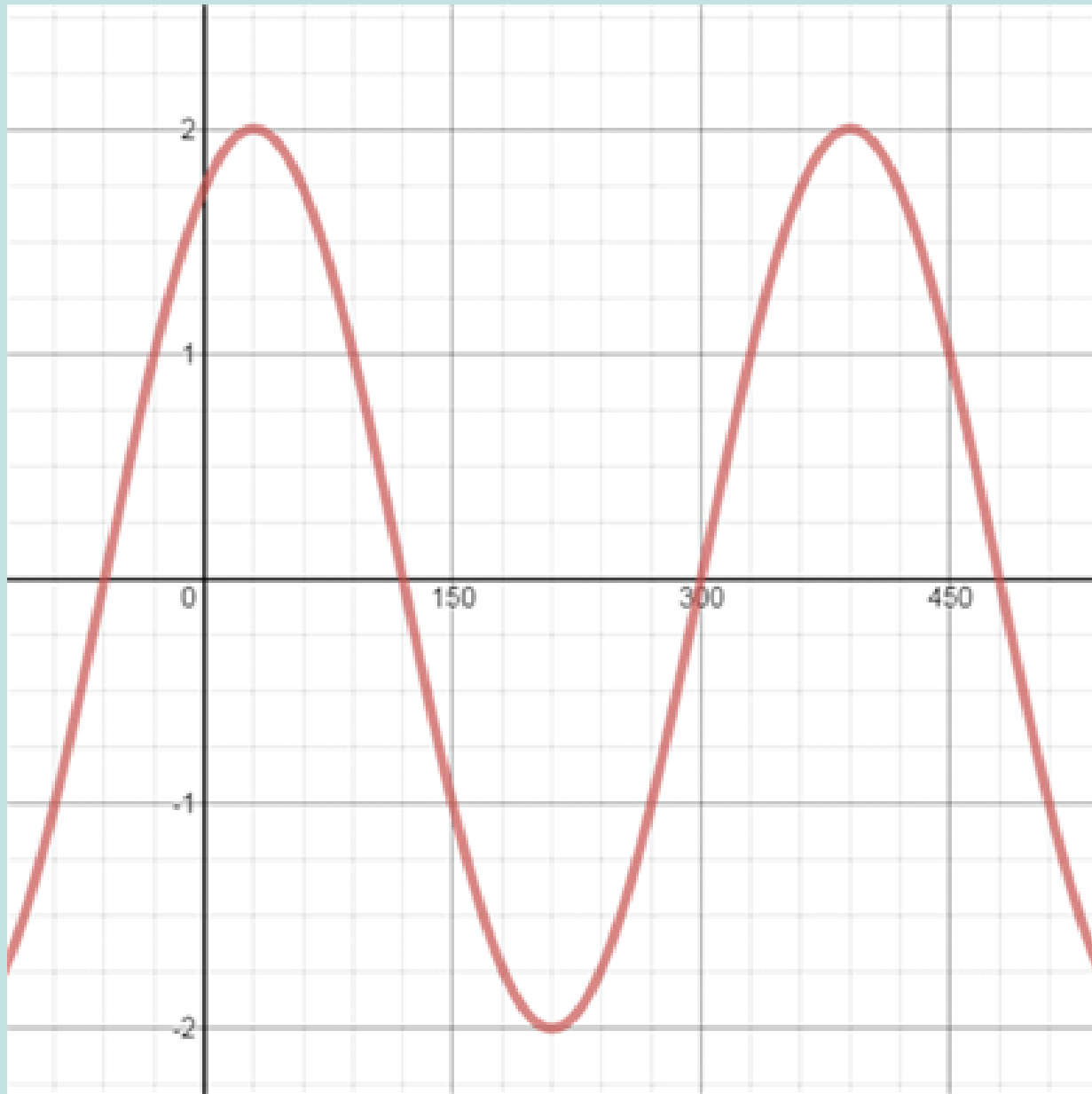
Graph:

$$y = \cos \frac{1}{4} \theta$$

$$y = \sin(\theta + 45^\circ)$$

$$y = \cos \frac{1}{2} (\theta - 30^\circ)$$

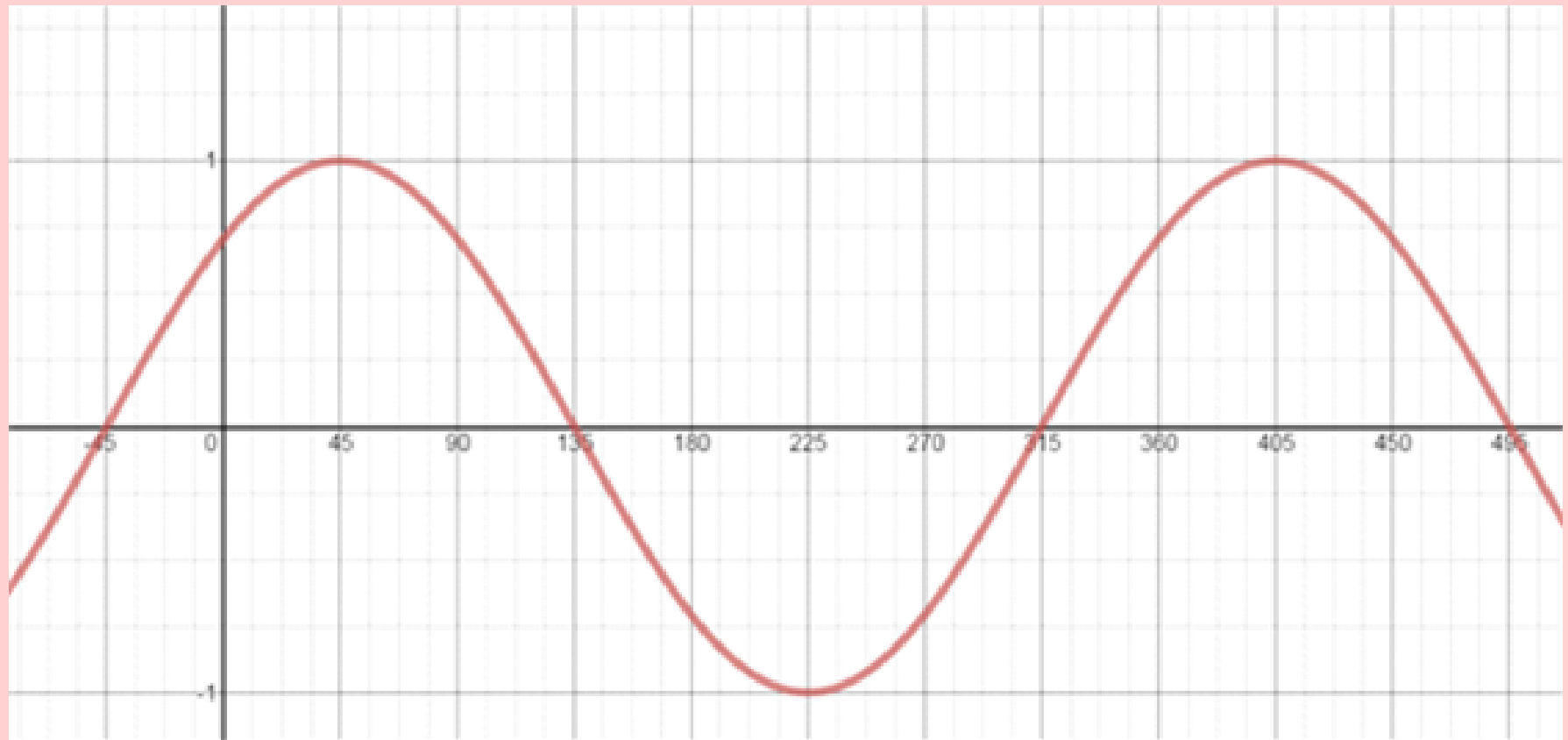
Write the equation for the given graph.



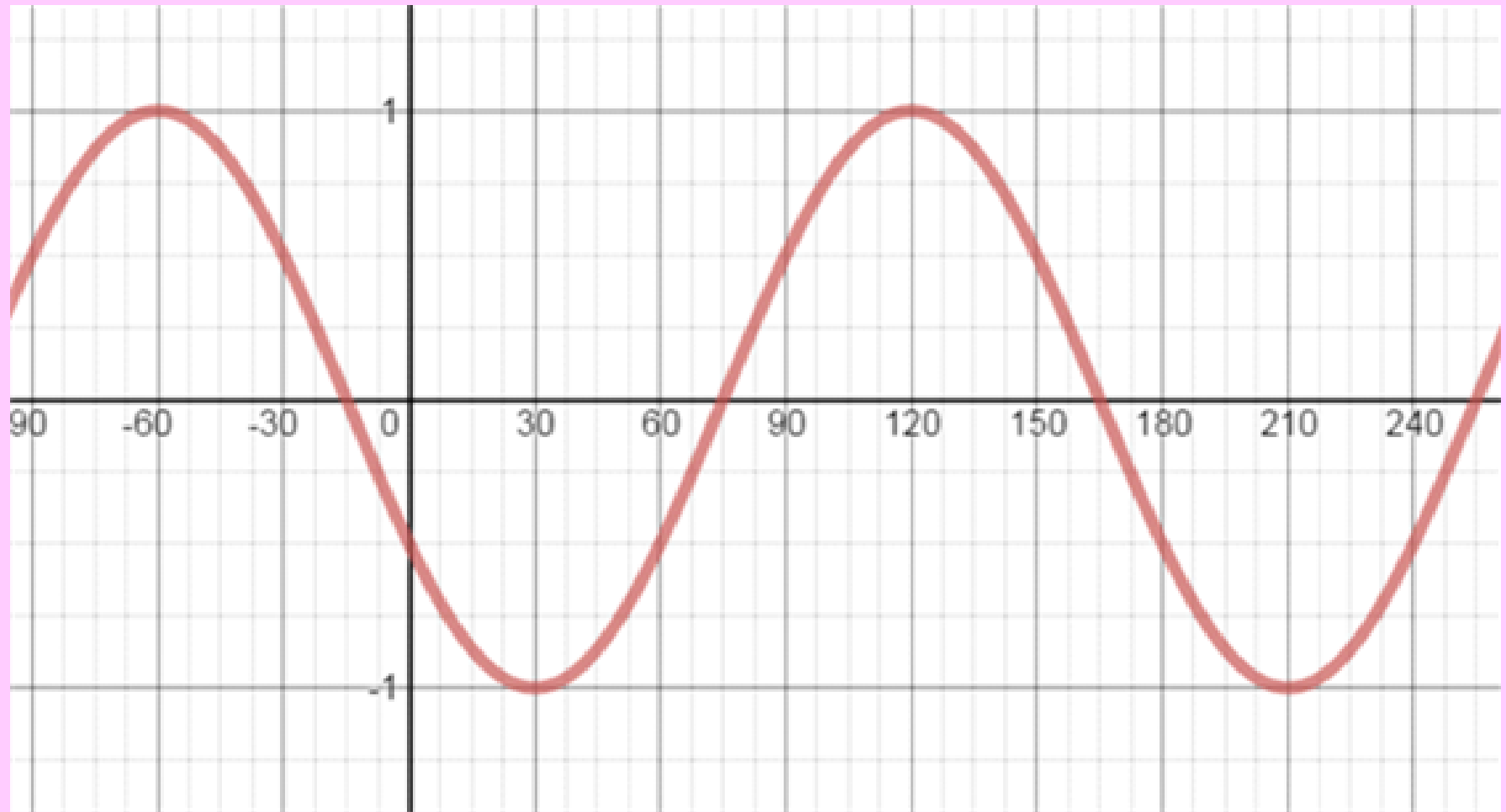
Write the equation for the given graph.



Write the equation for the given graph.



Write the equation for the given graph.



Write the equation based off of the following transformations:

$$\text{Period} = 270^\circ$$

$$\text{h.t. of } -70^\circ$$

Graph:

$$y = \sin \frac{1}{2}(\theta + 45^\circ)$$

$$y = \cos 8(\theta - 120^\circ)$$