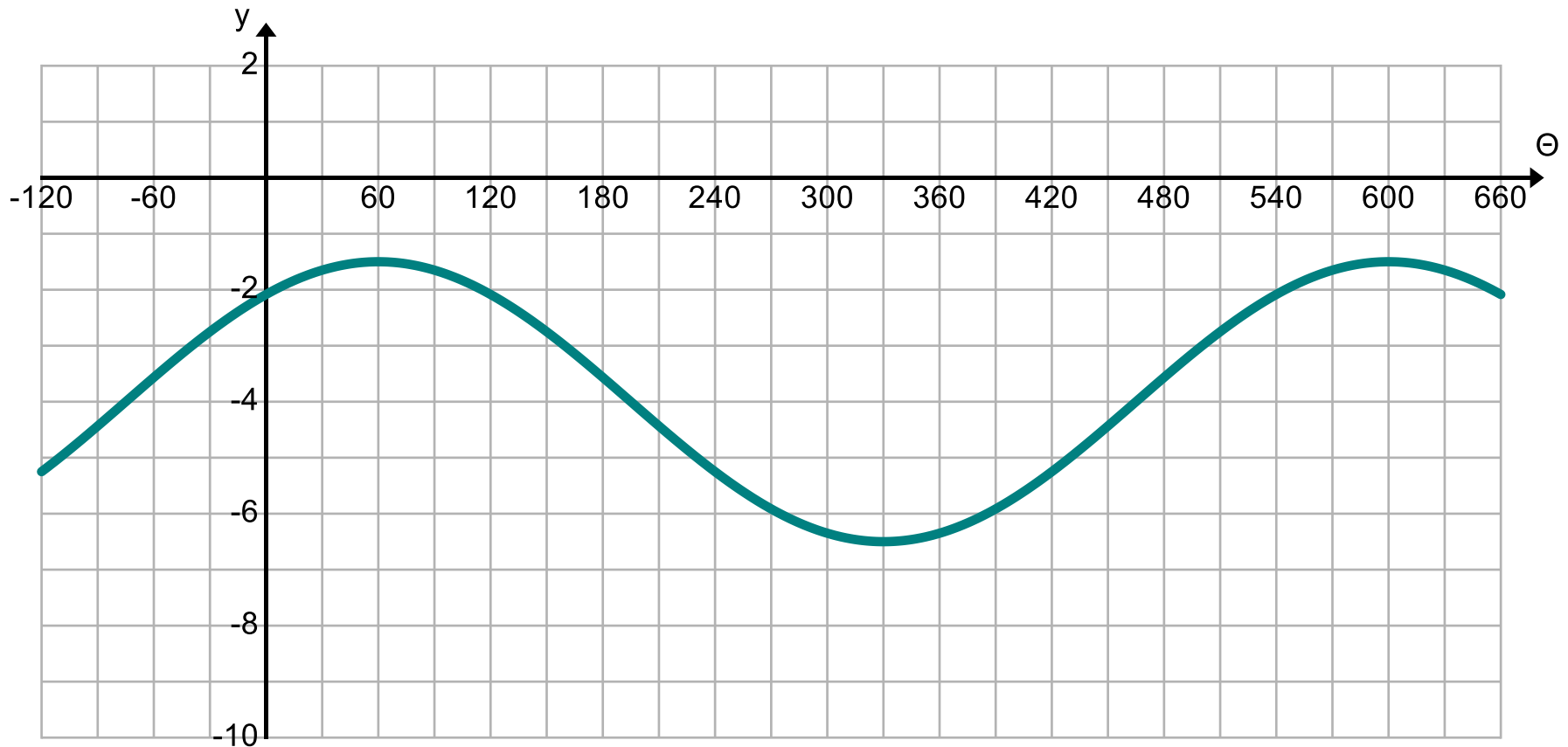
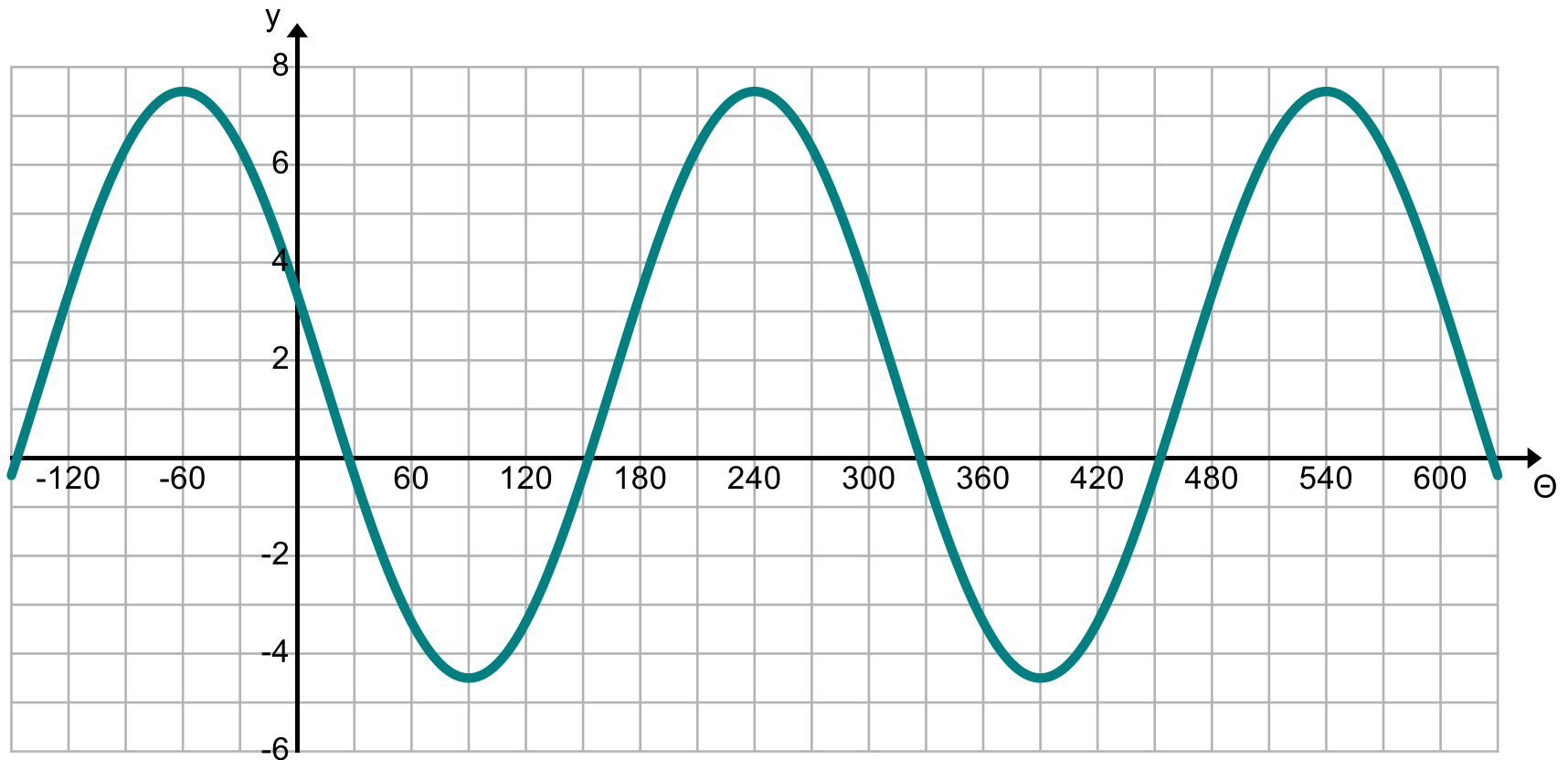


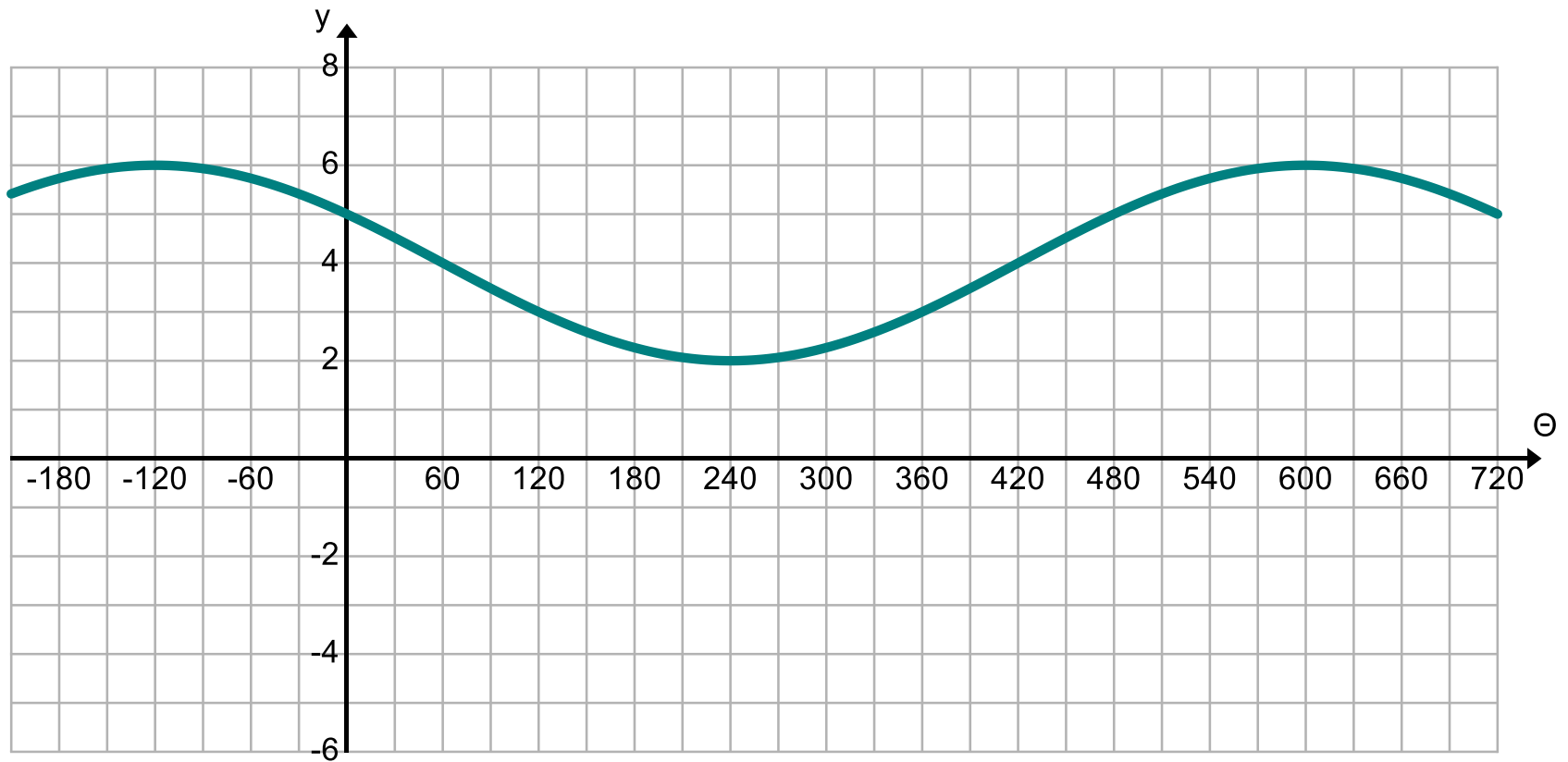
#1 Write the equation of the transformed sinusoid(**cosine**) graphed below.



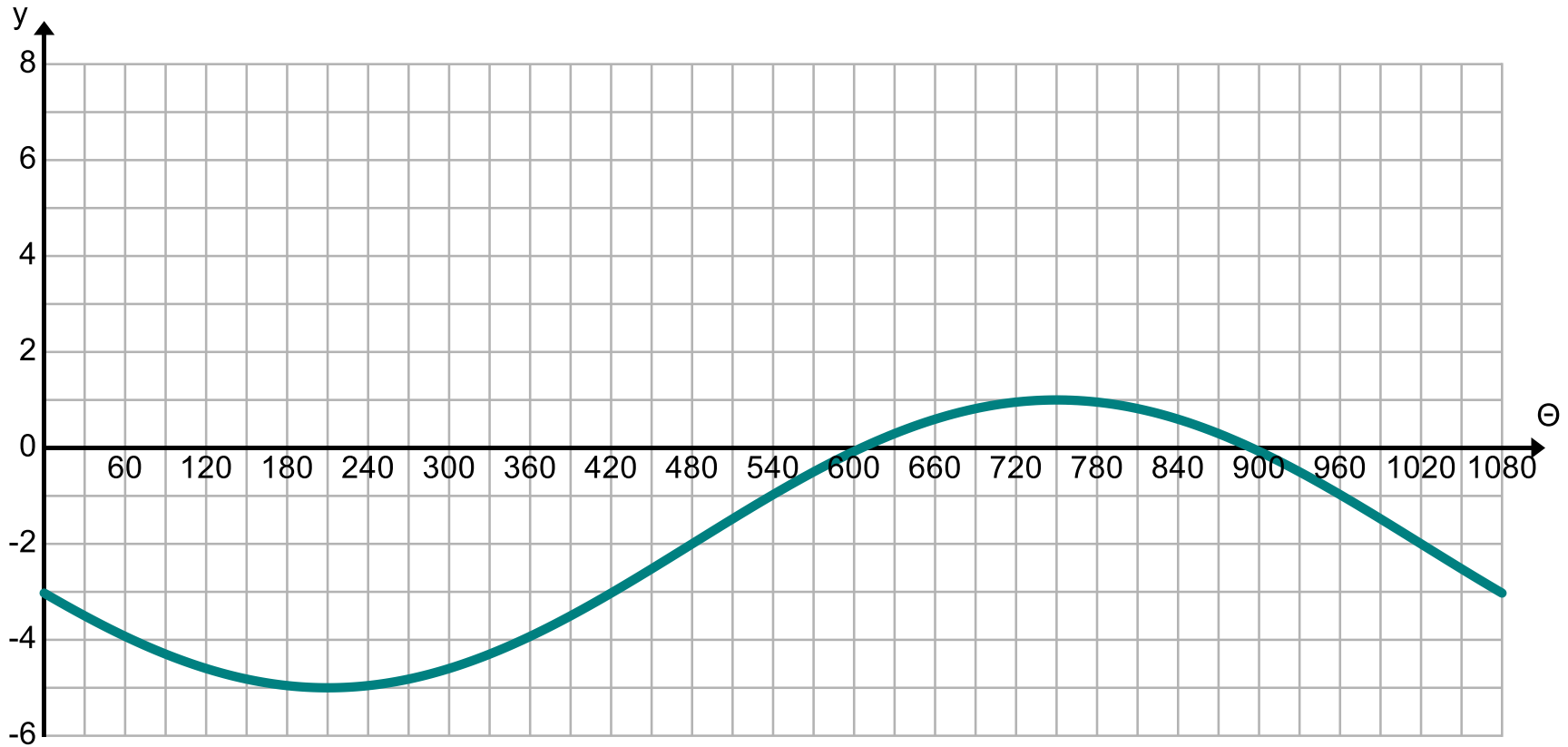
#2 Write the equation of the transformed sinusoid(**cosine**) graphed below.



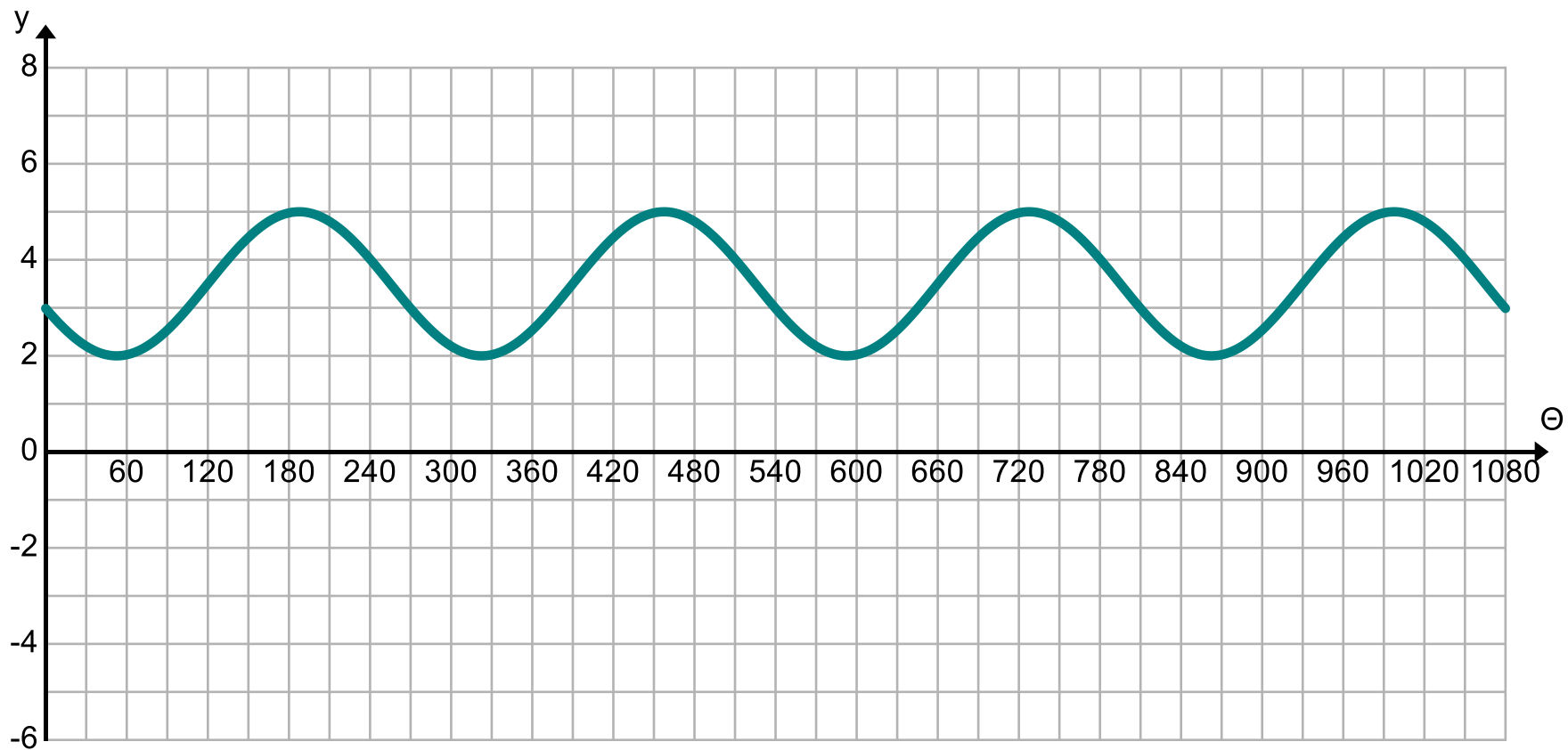
#3 Write the equation of the transformed sinusoid(**cosine**) graphed below.



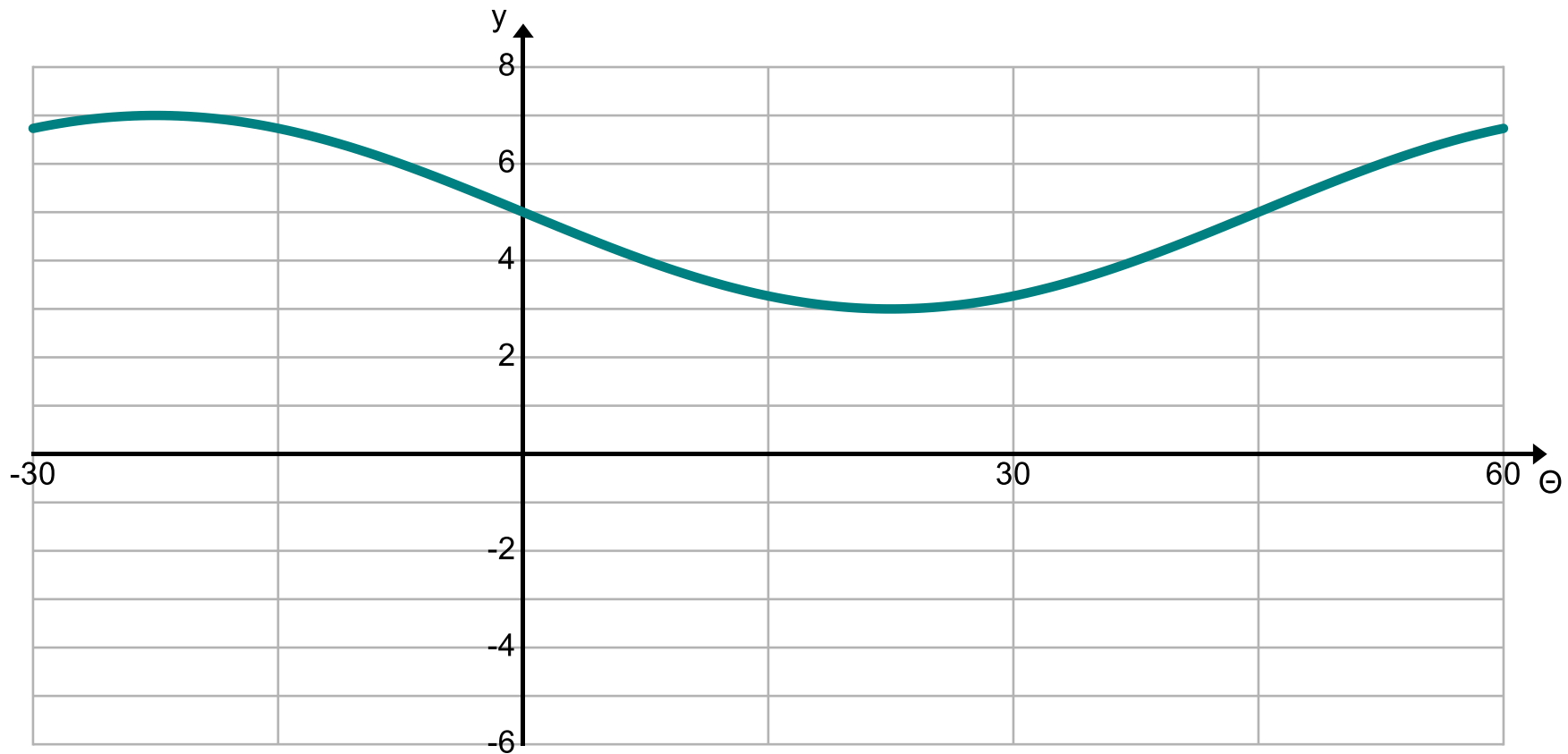
#4 Write the equation of the transformed sinusoid(**sine**) graphed below.



#5 Write the equation of the transformed sinusoid(**sine**) graphed below.



#6 Write the equation of the transformed sinusoid(**sine**) graphed below.



7. Find the following key features of the graph for the equation given below. Then sketch one cycle of the sinusoid.

Horizontal Dilation Factor:

Phase Displacement:

Period:

Vertical Displacement:

Amplitude:

$$y = -4 + 2\sin\frac{6}{7}(\theta + 105^\circ)$$

8. Find the following key features of the graph for the equation given below. Then sketch one cycle of the sinusoid.

Horizontal Dilation Factor:

Phase Displacement:

Period:

Vertical Displacement:

Amplitude:

$$y = 1.5\sin 2(\theta - 45^\circ) + 3$$

9. Find the following key features of the graph for the equation given below. Then sketch one cycle of the sinusoid.

Horizontal Dilation Factor:

Phase Displacement:

Period:

Vertical Displacement:

Amplitude:

$$y = -5 + 2\sin 45(\theta + 3^\circ)$$

10. Find the following key features of the graph for the equation given below. Then sketch one cycle of the sinusoid.

Horizontal Dilation Factor:

Period:

Phase Displacement:

Amplitude:

Vertical Displacement:

$$y = 5 \cos \frac{9}{25} (\theta + 400^\circ) - 2$$

11. Find the following key features of the graph for the equation given below. Then sketch one cycle of the sinusoid.

Horizontal Dilation Factor:

Phase Displacement:

Period:

Vertical Displacement:

Amplitude:

$$y = 2.5 \cos 6 (\theta - 45^\circ) + 4.5$$

12. Find the following key features of the graph for the equation given below. Then sketch one cycle of the sinusoid.

Horizontal Dilation Factor:

Phase Displacement:

Period:

Vertical Displacement:

Amplitude:

$$y = 5 + 2\cos\frac{9}{10}(\theta + 150^\circ)$$