

**ATHS FC – Math Department Al Ain (2012-2013)  
Grade 11 Core/Revision Worksheet (2)**

<b>Name</b>		<b>Date</b>	
<b>Section</b>		<b>Chapter/lesson(s)</b>	<b>12.7, 12.8</b>

**1. State the amplitude, period, phase shift, and vertical shift for the function. Then graph the function.**

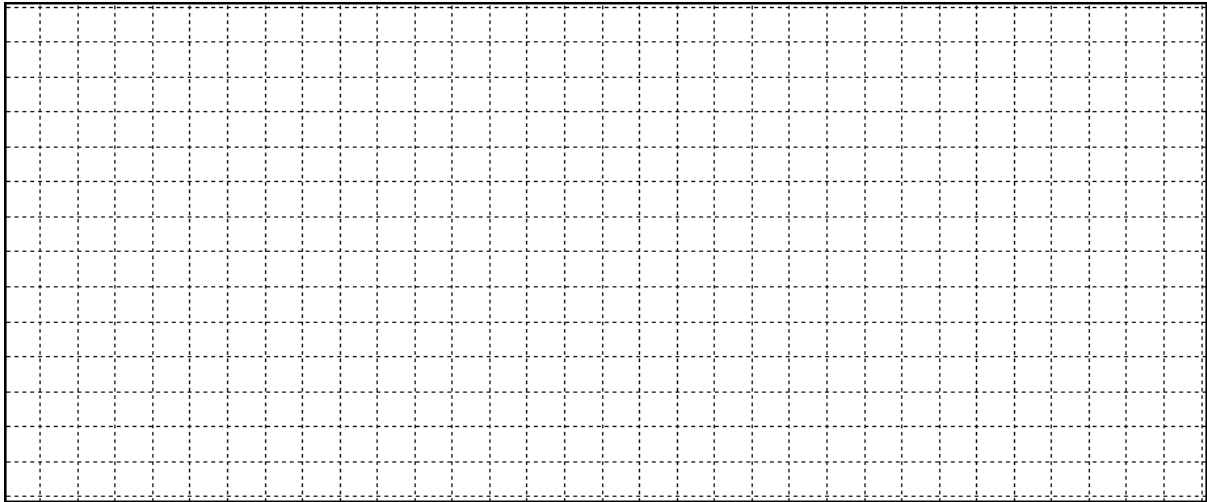
a)  $y = 3 \cos\left(\theta - \frac{\pi}{3}\right) + 4$

Amplitude:

Phase Shift:

Period:

Vertical Shift:



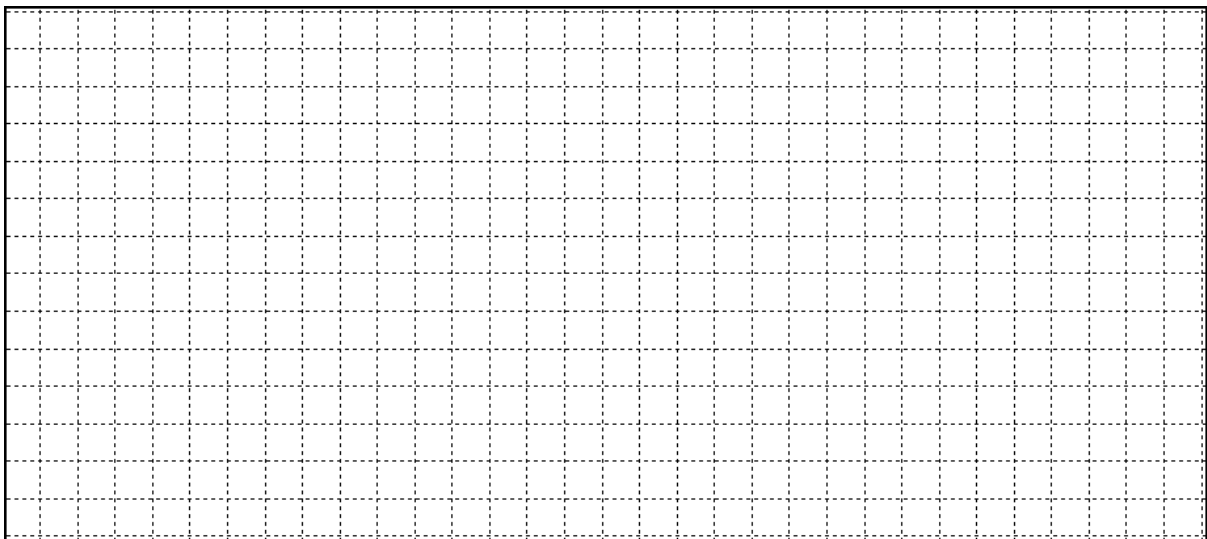
b)  $y = -2 + 4 \sin\frac{1}{3}\left(\theta + \frac{\pi}{2}\right)$

Amplitude:

Phase Shift:

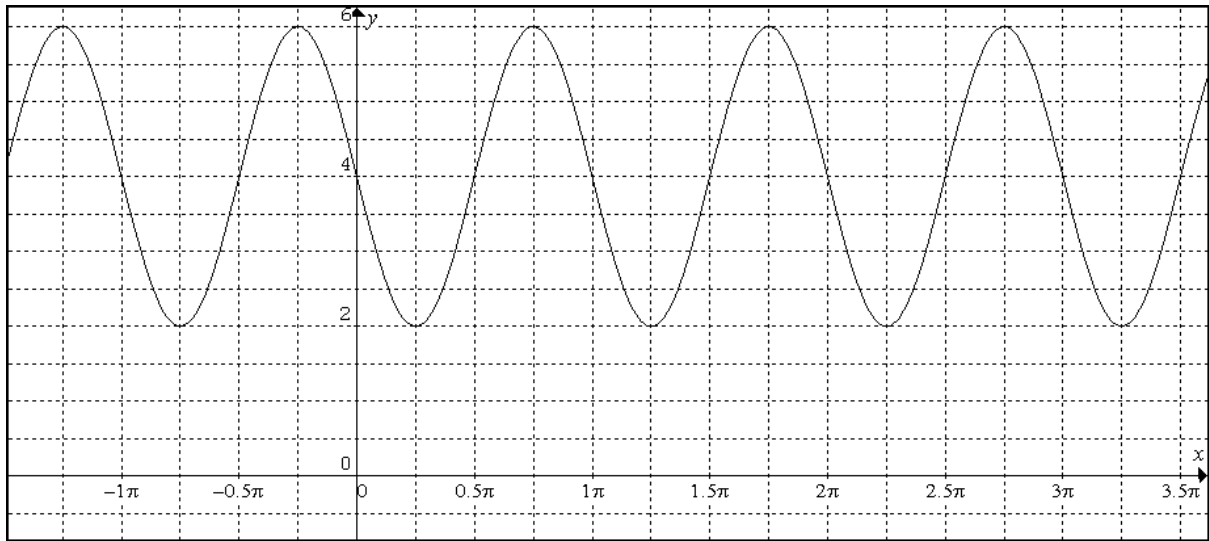
Period:

Vertical Shift:

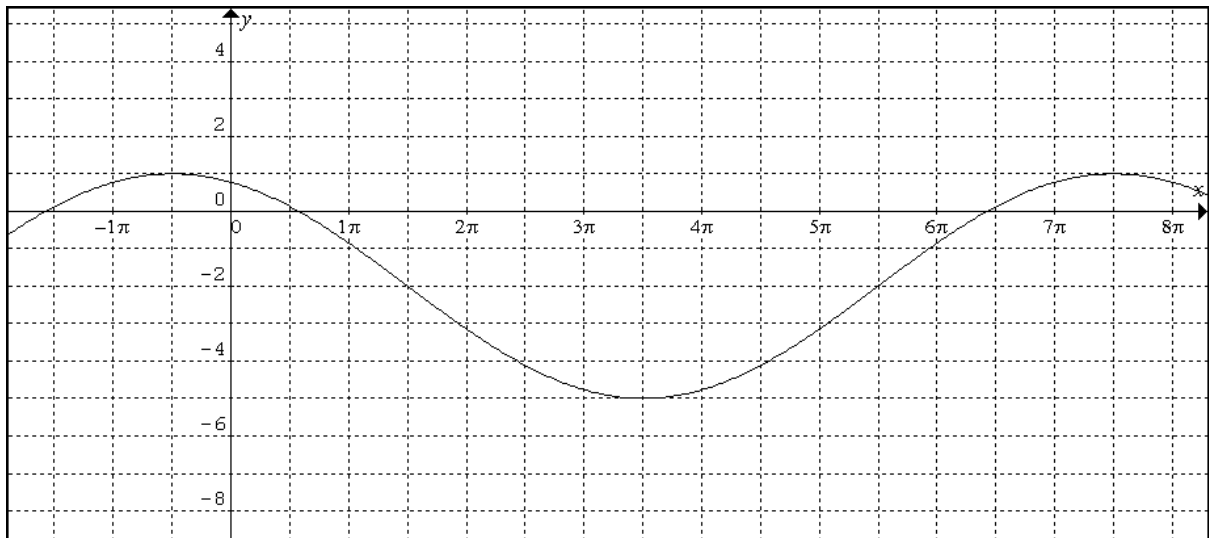


2. Identify the period of each function. Then write an equation for the graph using the given trigonometric function

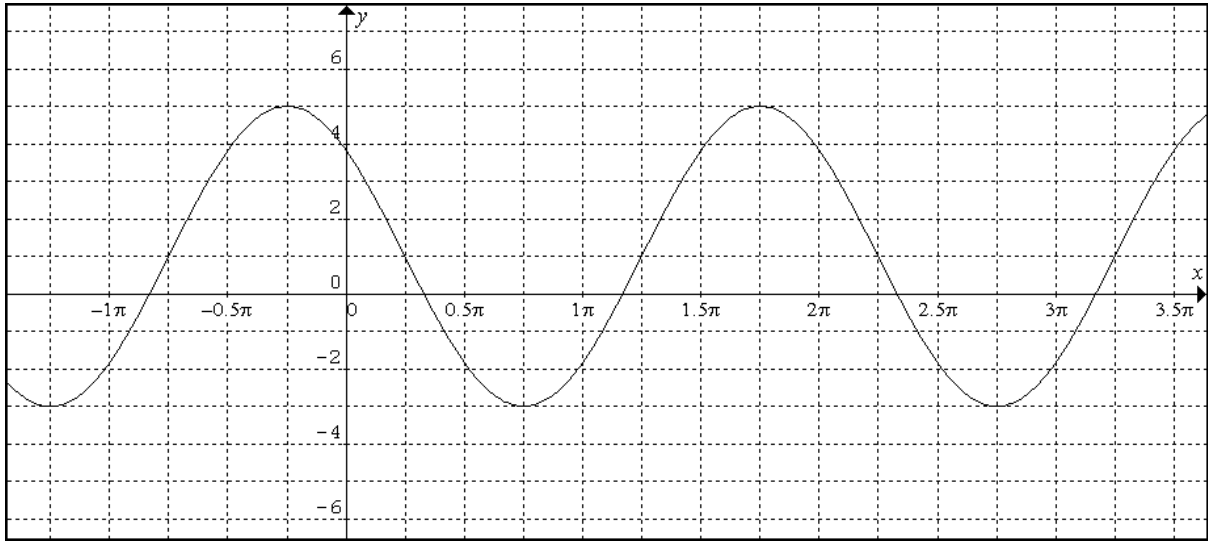
a) Sine



b) Cosine



c) Cosine



d) Sine

