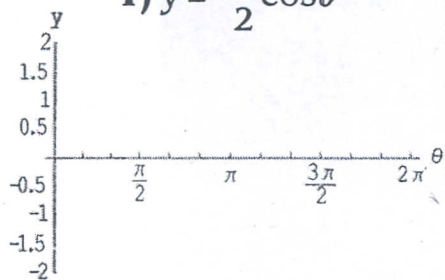


TRIGONOMETRY LESSON 4

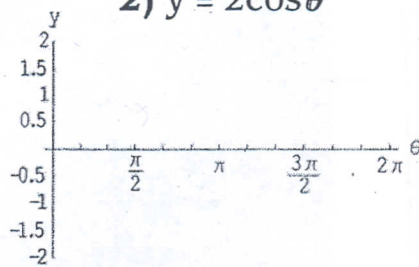
PART I AMPLITUDE

QUESTIONS: Draw the following graphs by hand, then graph them in your calculator to check.

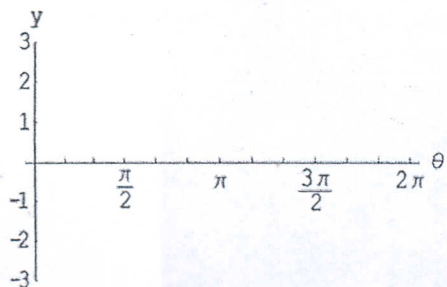
1) $y = -\frac{1}{2} \cos \theta$



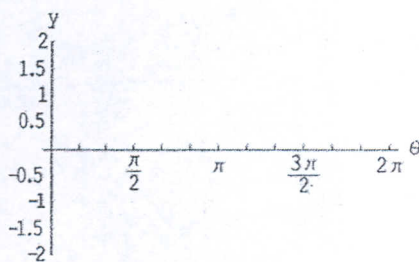
2) $y = 2 \cos \theta$



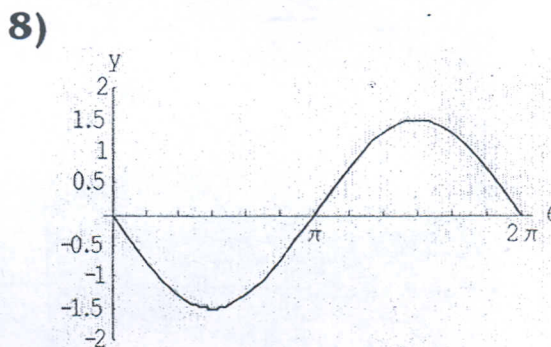
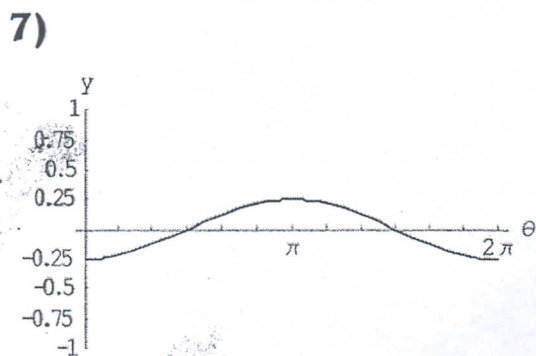
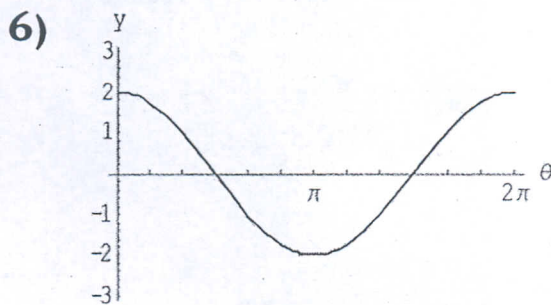
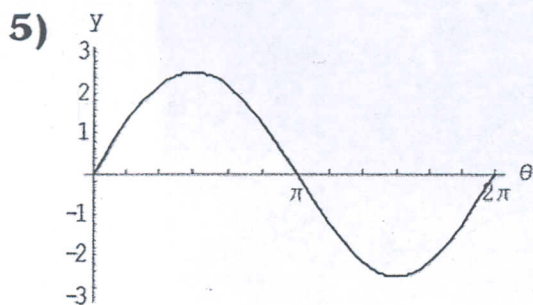
3) $y = -3 \sin \theta$



4) $y = -\frac{1}{2} \sin \theta$



For each of the following graphs, write the equation:



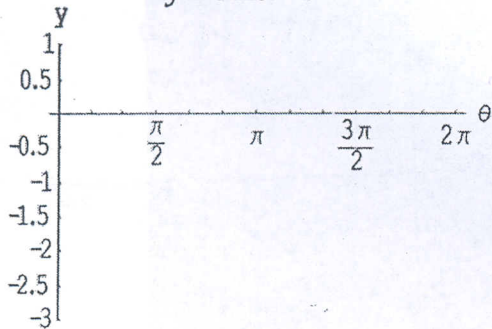
TRIGONOMETRY LESSON 4

PART II VERTICAL TRANSLATION

Questions: Draw the graph:

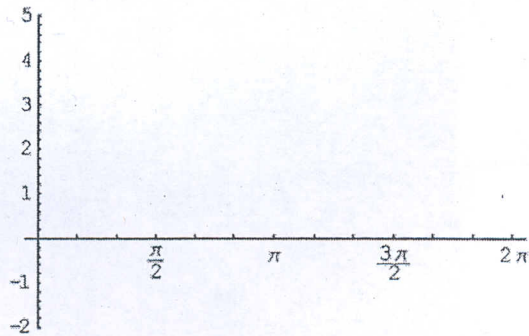
1)

$$y = \sin\theta - 1$$



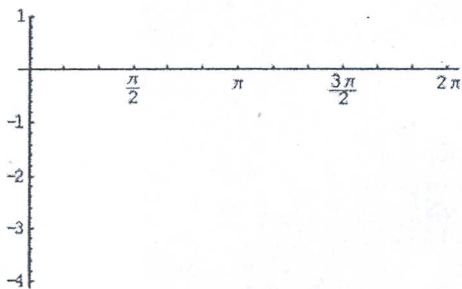
2)

$$y = \cos\theta + 2$$



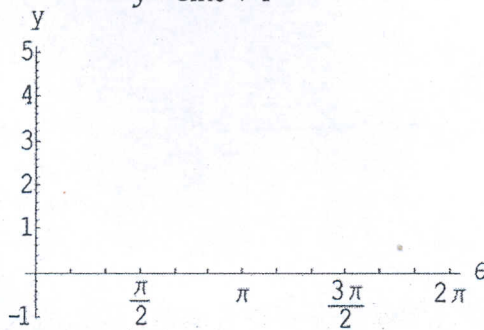
3)

$$y = \cos\theta - 3$$



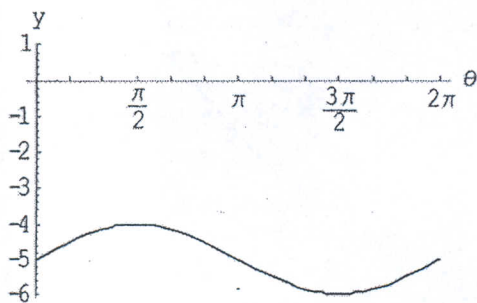
4)

$$y = \sin\theta + 4$$

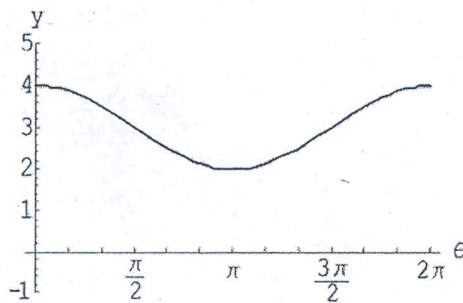


For each of the following graphs, write the equation.

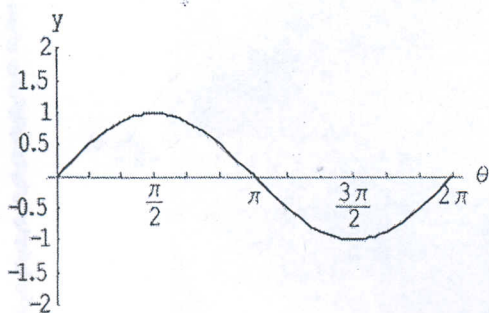
5)



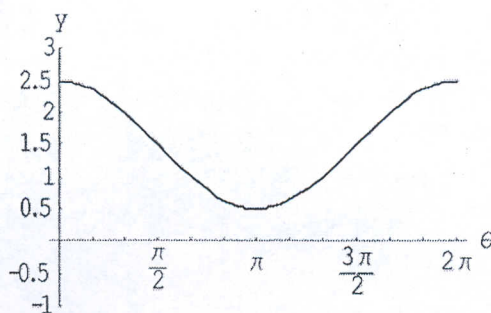
6)



7)



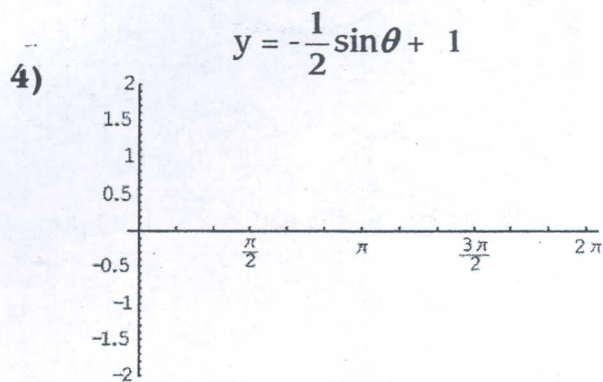
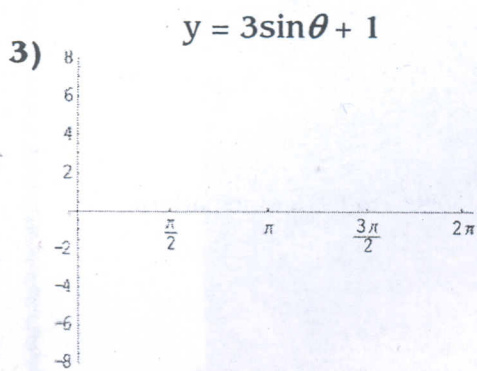
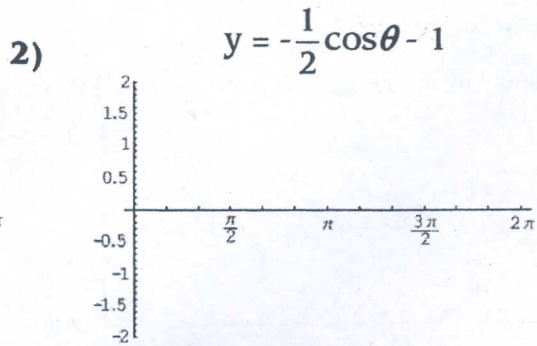
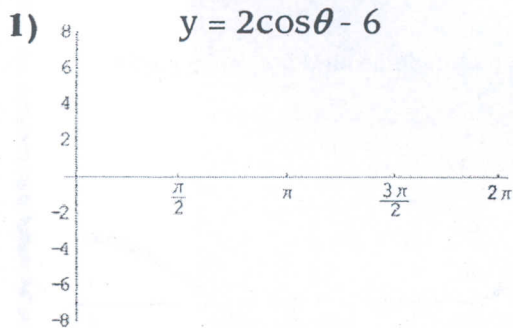
8)



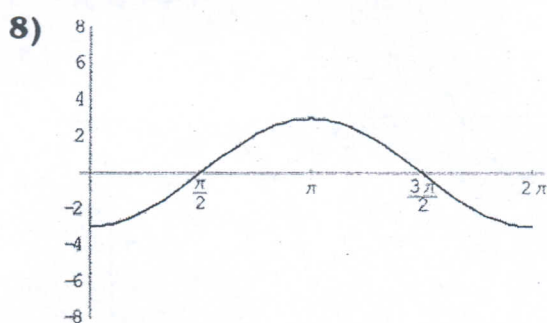
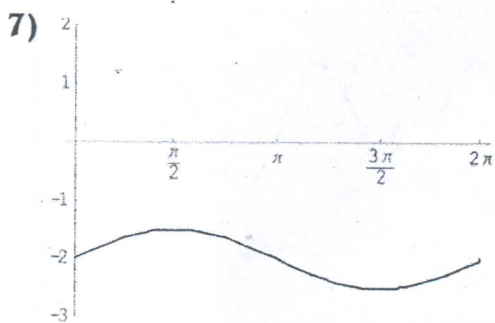
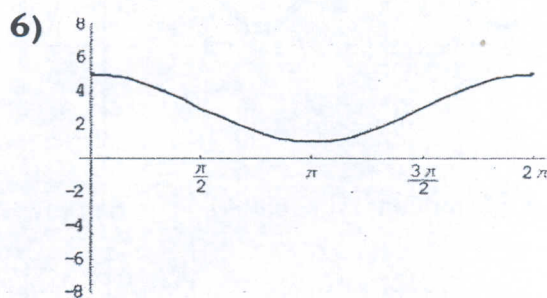
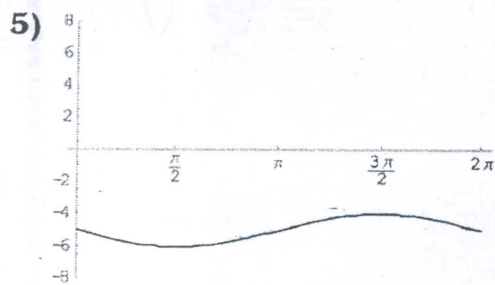
TRIGONOMETRY LESSON 4

PART III GRAPHING A AND D

Questions: Draw the graph.



For each of the following graphs, write the equation.

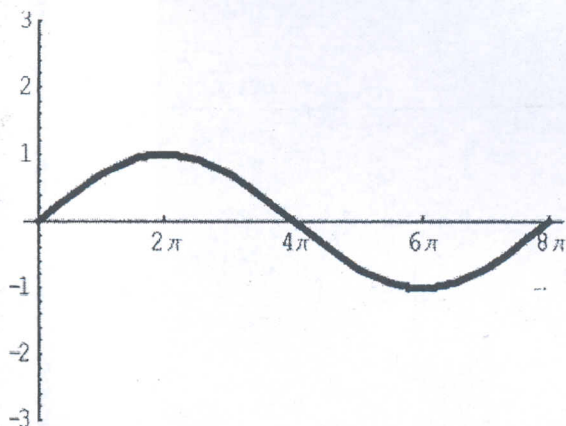


TRIGONOMETRY LESSON FIVE

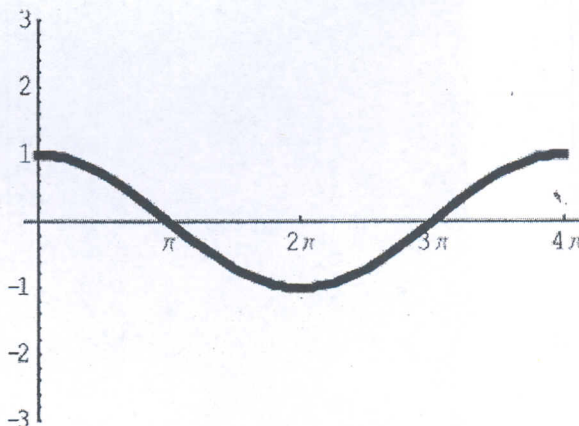
PART I - PERIOD

Questions: For each of the following graphs, draw a rectangle around the indicated pattern and state the period.

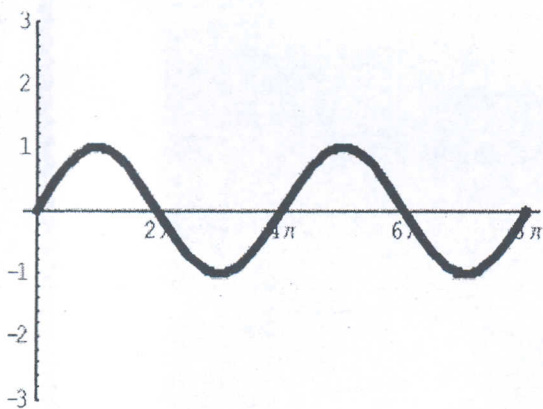
1) Draw a rectangle around a **sine** pattern.



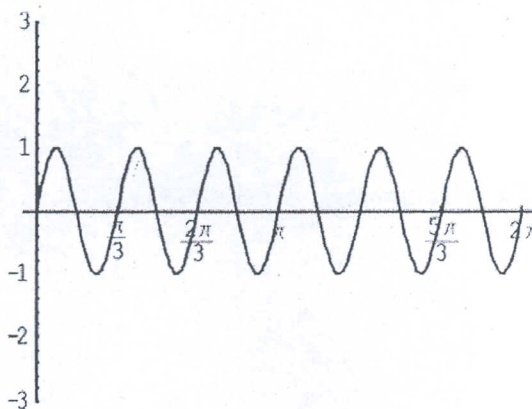
2) Draw a rectangle around a **cosine** pattern.



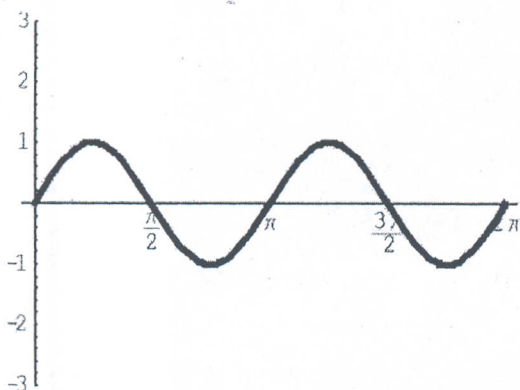
3) Draw a rectangle around a **sine** pattern.



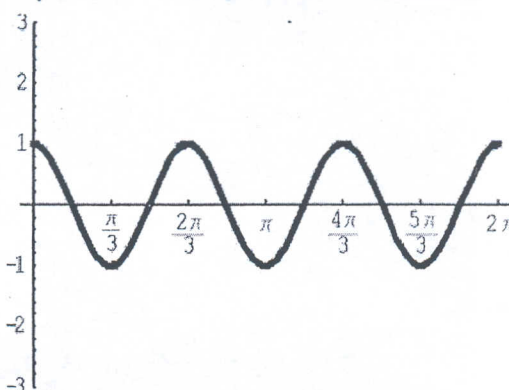
4) Draw a rectangle around a **sine** pattern.



5) Draw a rectangle around a **sine** pattern.



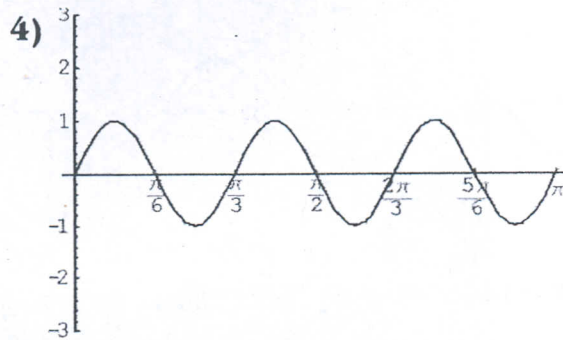
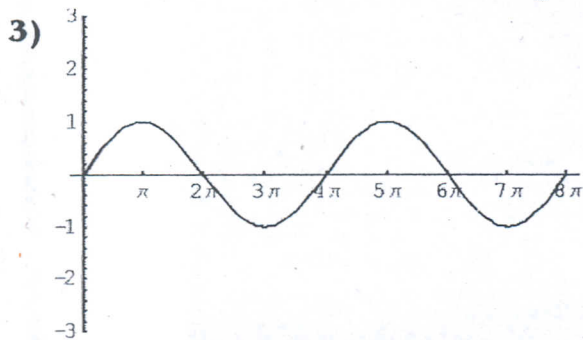
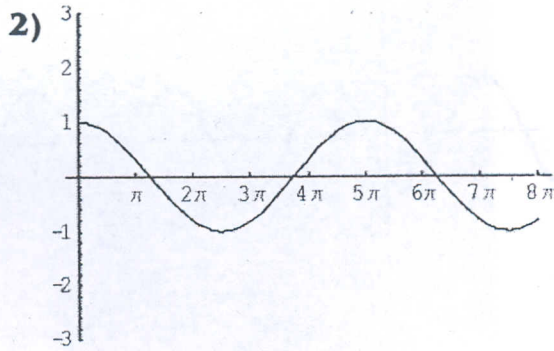
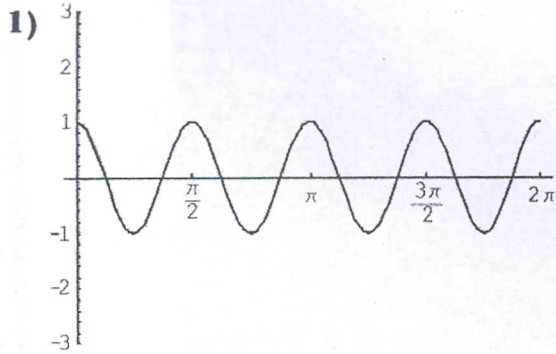
6) Draw a rectangle around a **cosine** pattern.



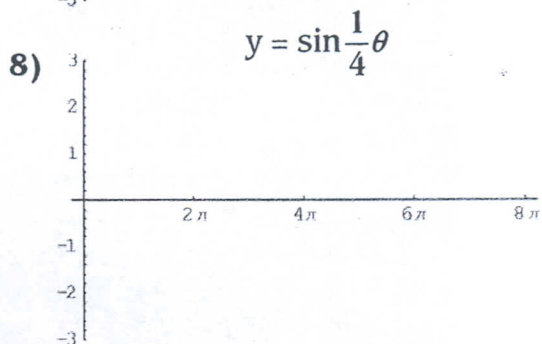
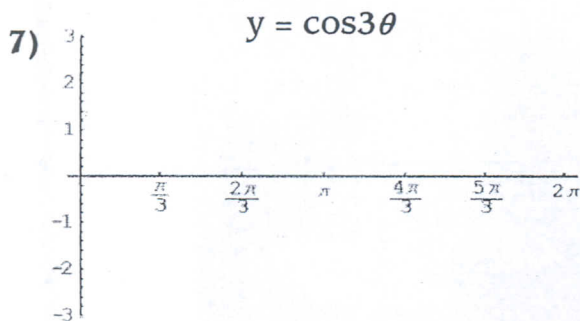
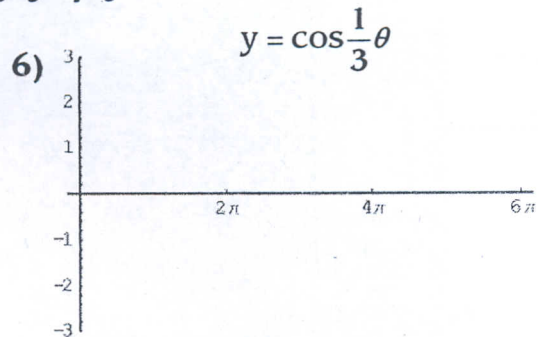
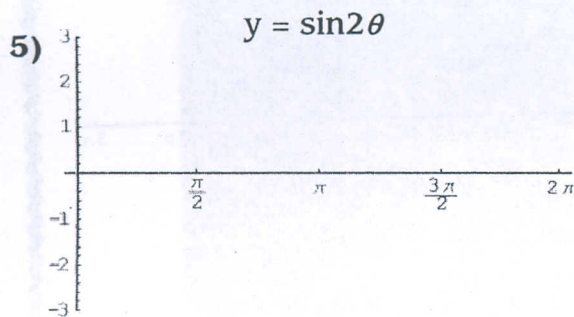
TRIGONOMETRY LESSON FIVE

PART II - THE B VALUE

Questions: For each of the following graphs, write the equation:



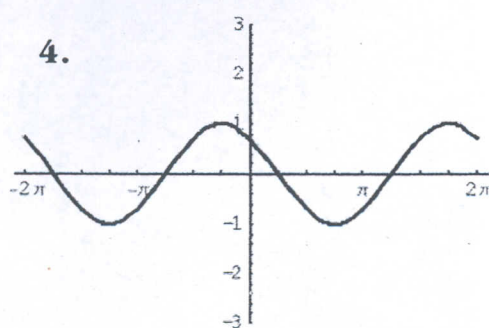
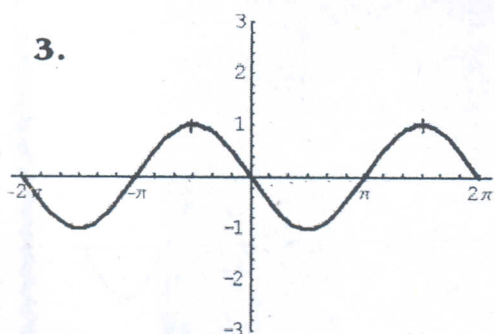
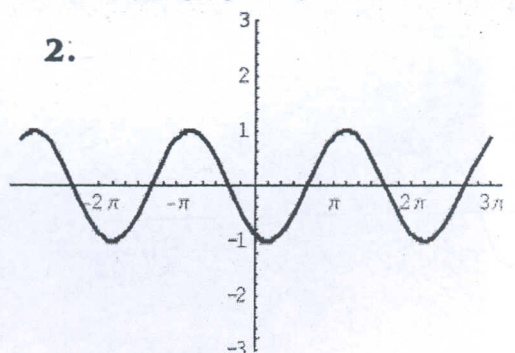
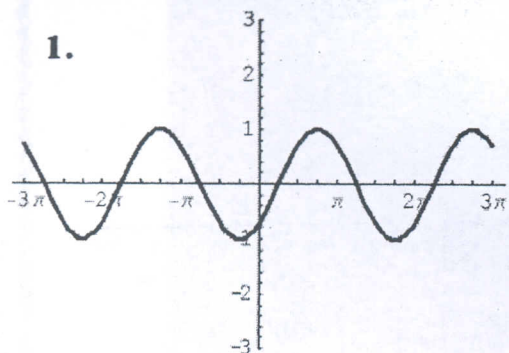
For each of the following equations, draw the graph:



TRIGONOMETRY LESSON FIVE

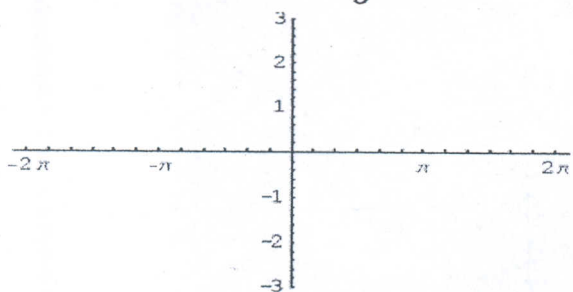
PART III - THE C VALUE

Questions: For 1 & 2, write the sine equation. For 3 & 4, write the cosine equation.

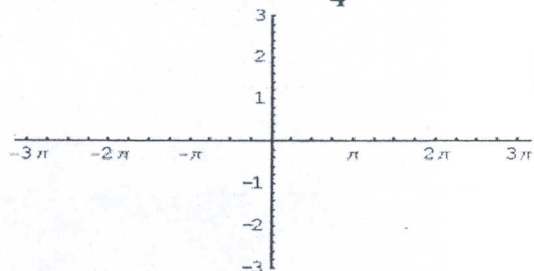


For 5 & 6, draw the sine graph. For 7 & 8, draw the cosine graph.

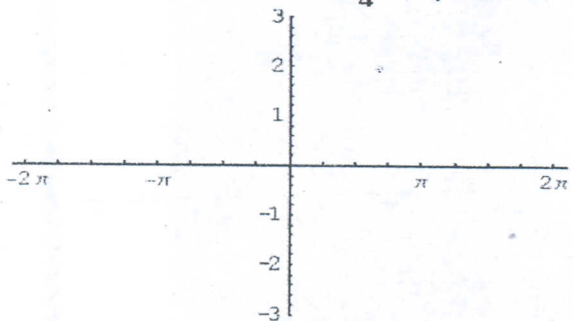
5. $y = \sin\left(\theta + \frac{\pi}{3}\right)$



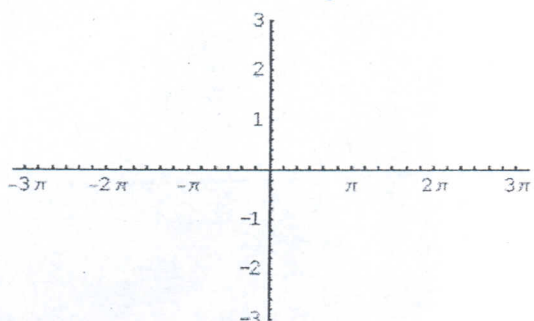
6. $y = \sin\left(\theta - \frac{\pi}{4}\right)$



7. $y = \cos\left(\theta + \frac{\pi}{4}\right)$



8. $y = \cos\left(\theta - \frac{5\pi}{6}\right)$

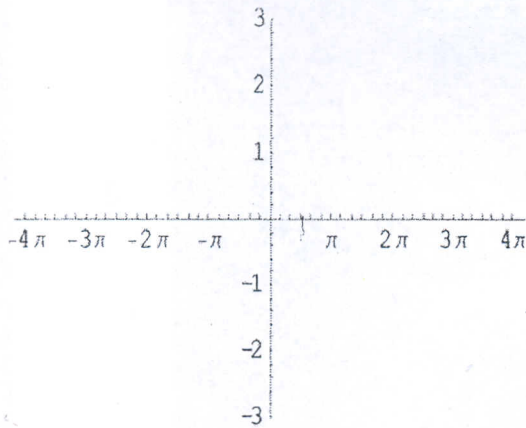


TRIGONOMETRY LESSON FIVE

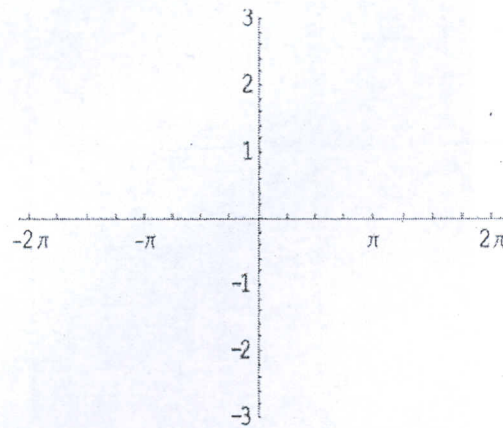
PART IV - GRAPHING B AND C

Questions: Graph the following equations:

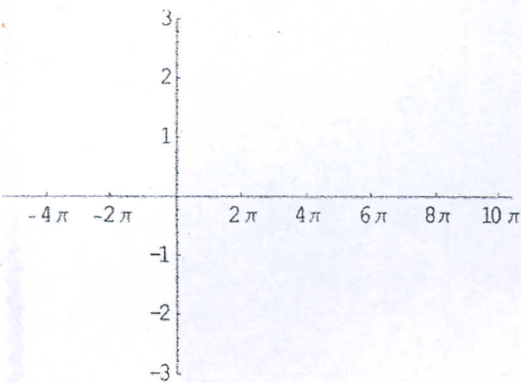
1) $y = \sin \frac{2}{3}(\theta - \frac{\pi}{2})$



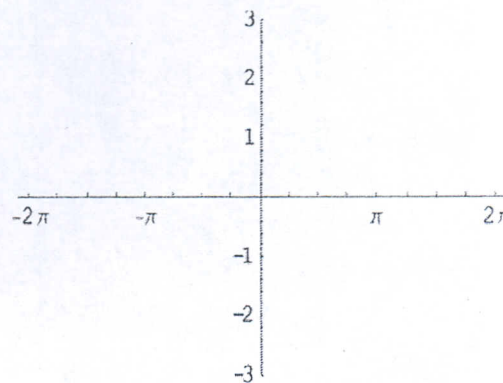
2) $y = \sin 2(\theta - \frac{\pi}{4})$



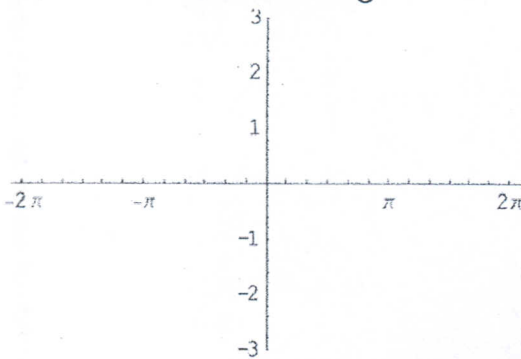
3) $y = \cos \frac{1}{3}(x - \pi)$



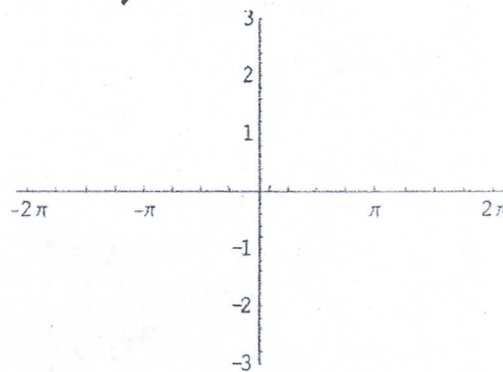
4) $y = \cos(2\theta - \pi)$



5) $y = \sin(2\theta - \frac{\pi}{3})$



6) $y = \cos(4\theta + \pi)$

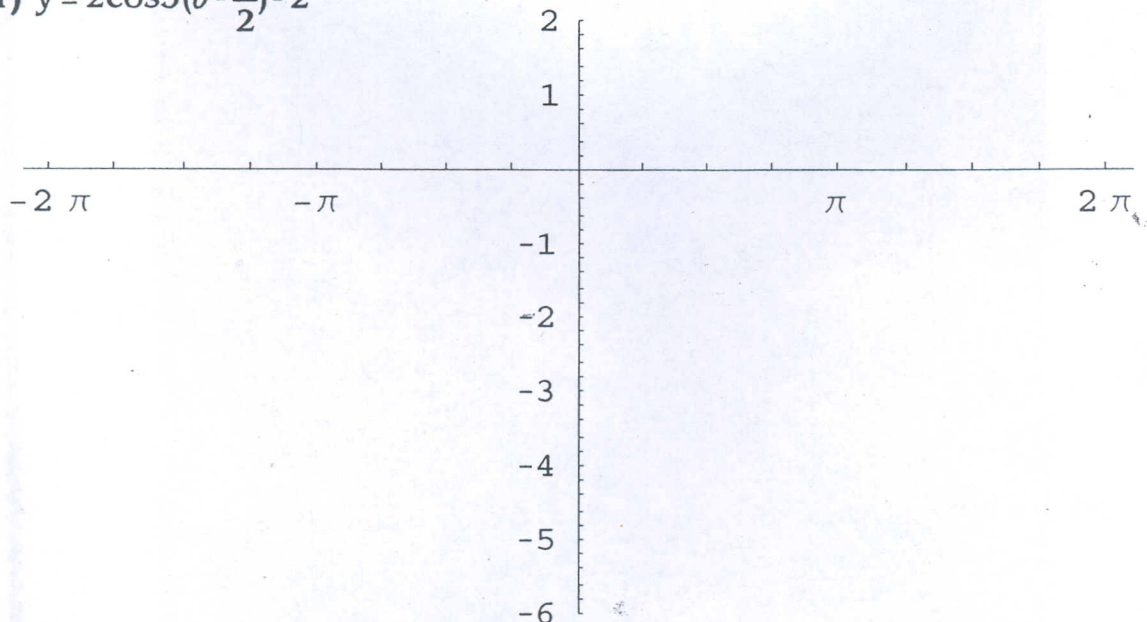


TRIGONOMETRY LESSON 6

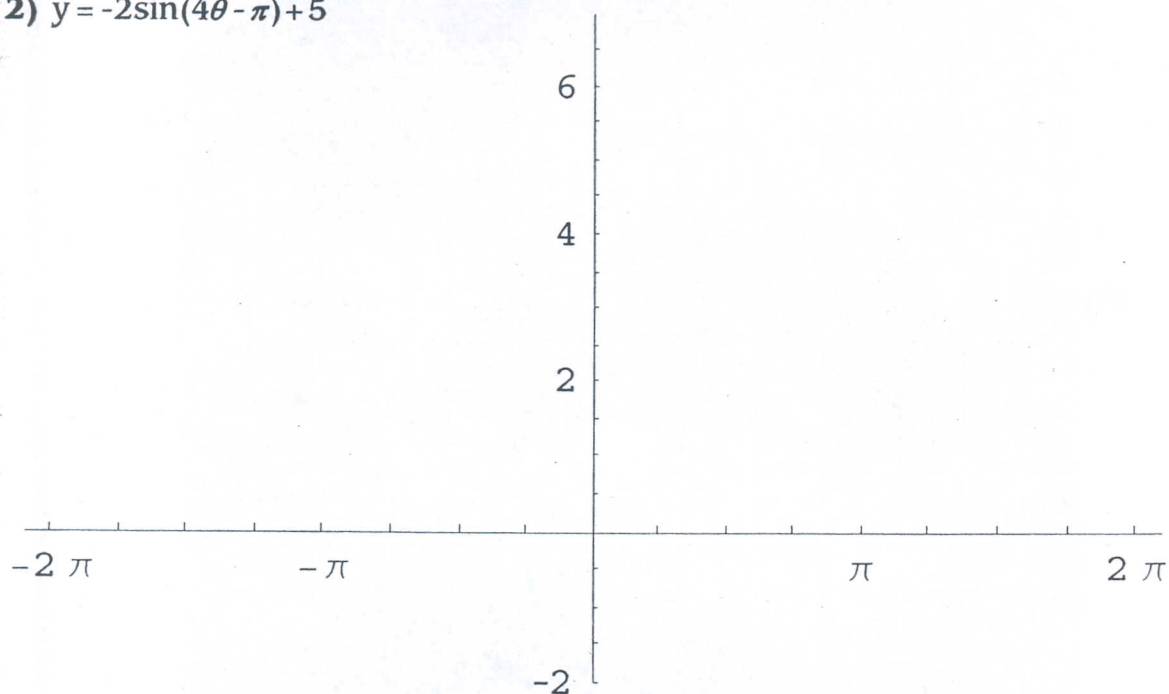
PART I GRAPHING ABCD

Questions: Graph each of the following equations. You may find it useful to draw each transformation in a different color. Remember to factor out numbers attached to θ .

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



2) $y = -2\sin(4\theta - \pi) + 5$

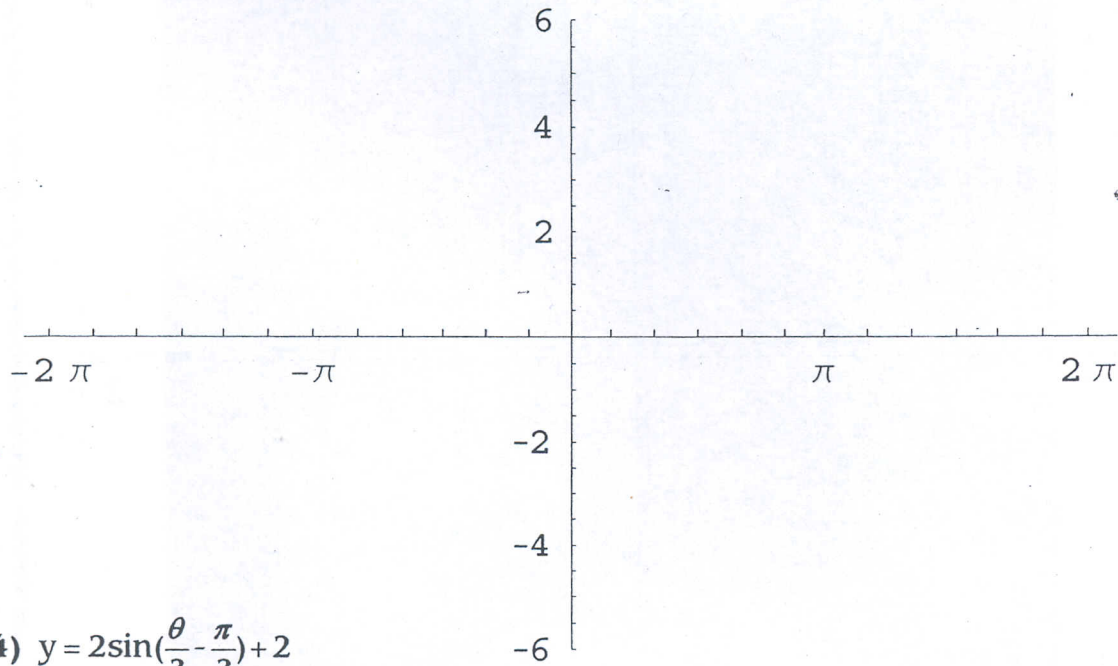


TRIGONOMETRY LESSON 6

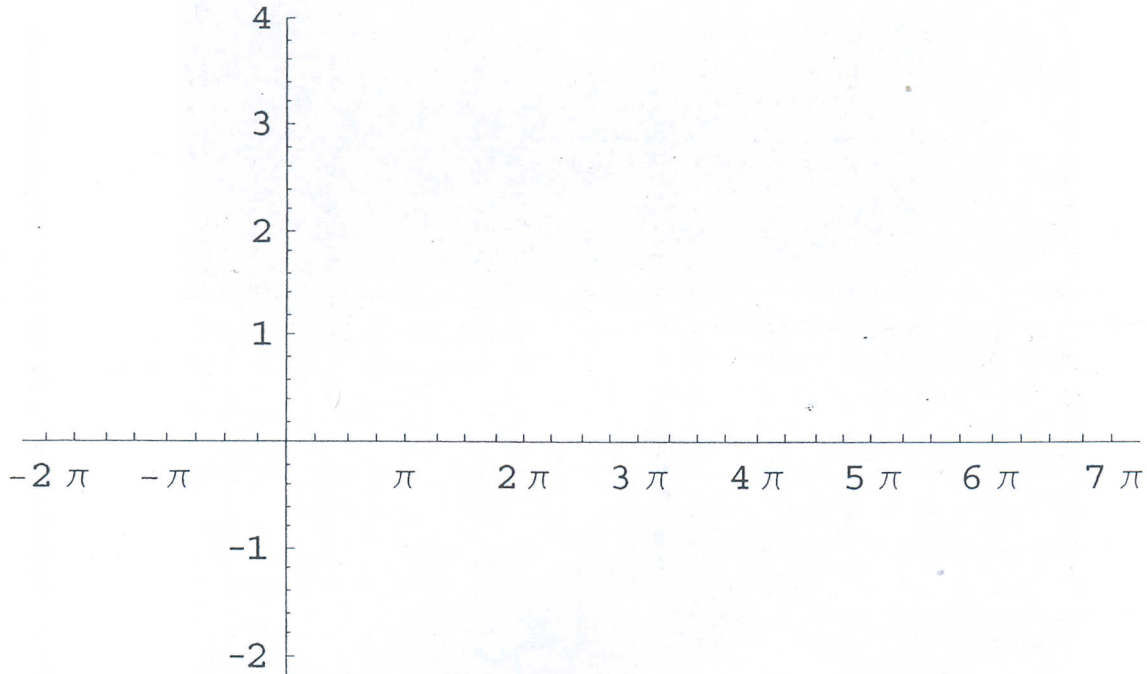
PART I GRAPHING ABCD

Questions:

3) $y = -5\cos(2\theta - \frac{\pi}{3}) + 1$



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

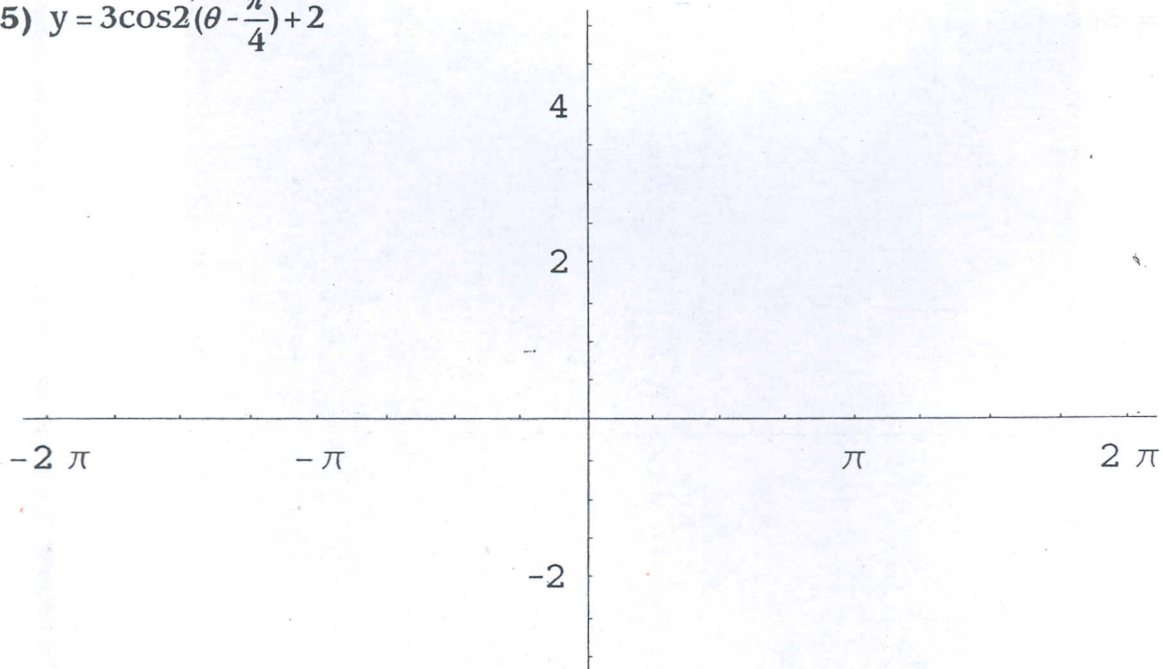


TRIGONOMETRY LESSON 6

PART I GRAPHING ABCD

Questions:

5) $y = 3\cos 2\left(\theta - \frac{\pi}{4}\right) + 2$



6) $y = -\frac{1}{2}\cos(2\theta - 90^\circ) + 1$

