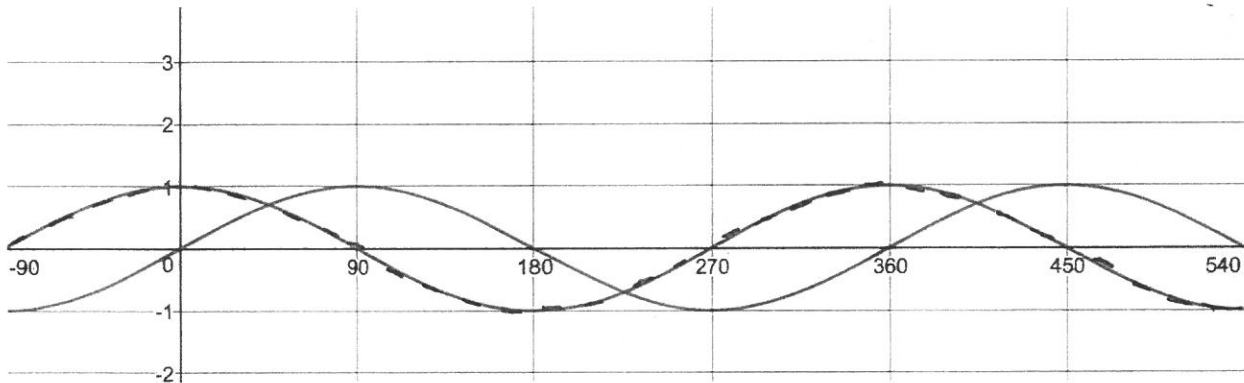


Without using your calculator, graph:

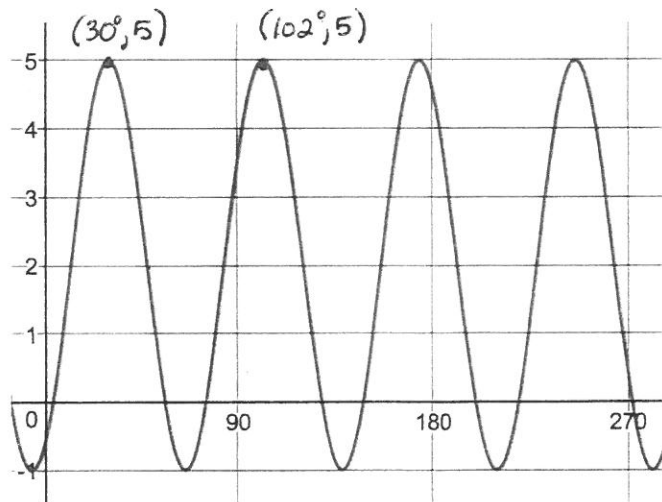
1.  $y = \sec \theta$

2.  $y = -3 + 5 \cos 4(\theta - 50^\circ)$

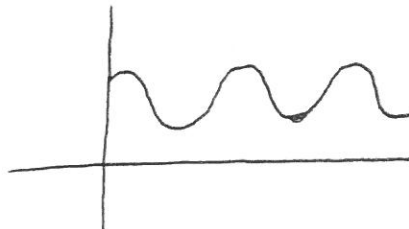
3. Dashed graph is  $y = \cos \theta$  and solid graph is  $y = \sin \theta$ . Use these graphs and the quotient property  $\tan \theta = \frac{\sin \theta}{\cos \theta}$  to draw asymptotes and  $\theta$ -intercepts of  $y = \tan \theta$



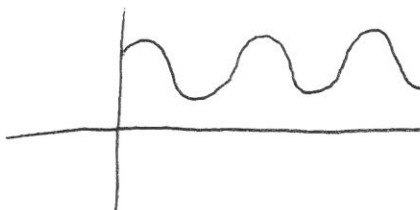
4. Write an equation of this sinusoid.



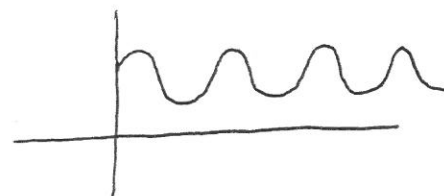
5. Darken exactly one cycle of this sinusoid.



6. Show the period of this sinusoid.



7. Show a critical point and a point of inflection on this graph.



8.  $y = -3 + 5 \cos 4(\theta - 50^\circ)$  Identify:

Vertical dilation:

vertical translation:

Horizontal dilation:

horizontal translation:

9. From #8 above,  
Identify:

Amplitude:

Phase displacement:

Period:

Sinusoidal axis: