

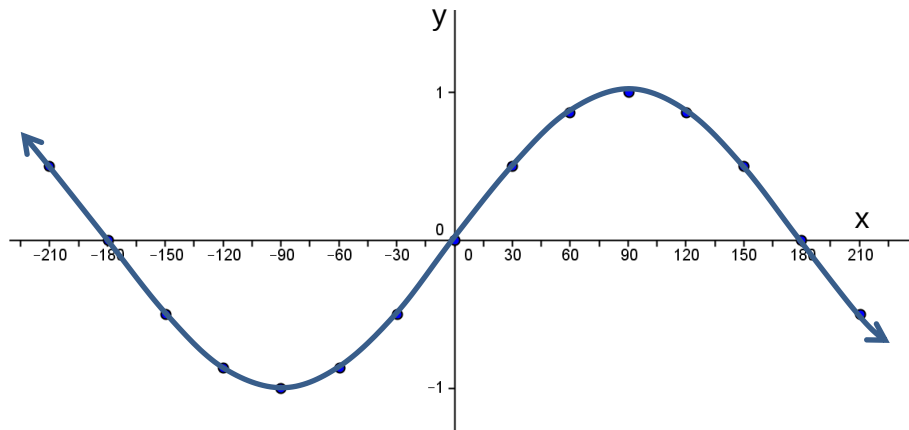
SHARP

Worksheet 8 – Trigonometric Graphs

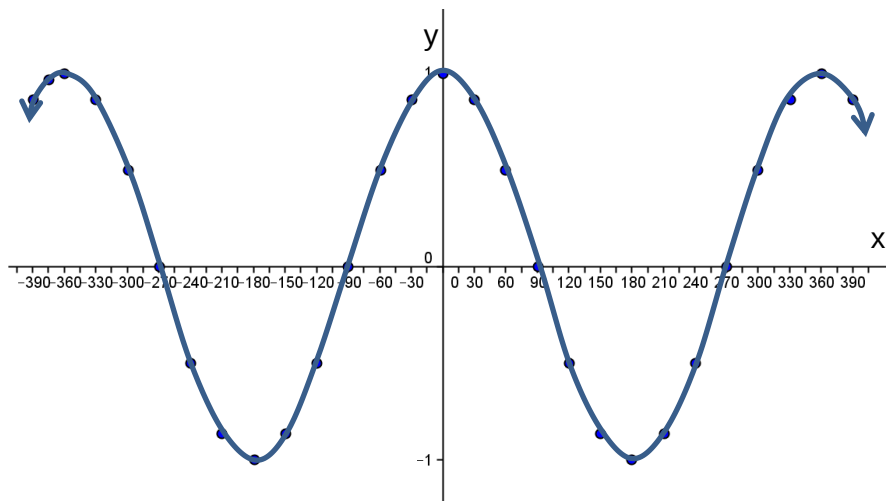
Grade 10 – Mathematics

1. Identify each of the following graphs as a sin, cos or tan graph.

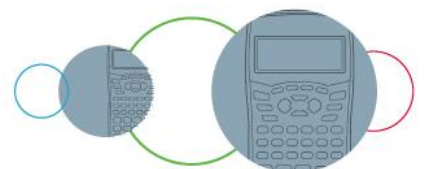
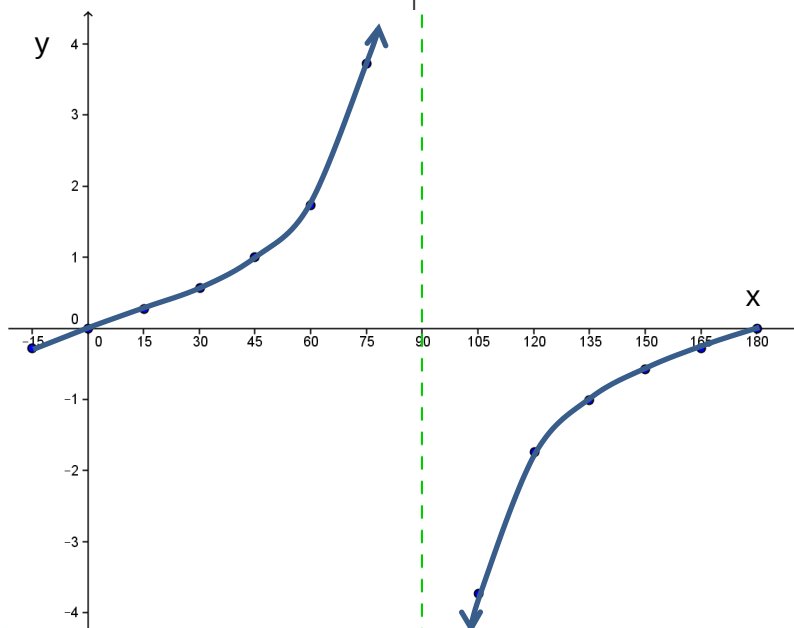
a)



b)



c)



2. Sketch the following graphs for $x \in [-180; 180]$:
 - a) $y = \sin x$
 - b) $y = \cos x$
 - c) $y = \tan x$
3. What is the period of:
 - a) $y = \sin x$?
 - b) $y = \cos x$?
 - c) $y = \tan x$?
4. What is the amplitude of:
 - a) $y = \sin x$?
 - b) $y = \cos x$?
5. Which important points fit with which equation?
 - a) (0; 0), (90; 1) and (180; 0)
 - b) (0; 1), (90; 0) and (180; 1)
 - c) (-45; -1), (0; 0) and (45; 1)
 - i) $y = \tan x$
 - ii) $y = \cos x$
 - iii) $y = \sin x$
6. What is the maximum value of:
 - a) $y = \sin x$
 - b) $y = \cos x$
7. What is the minimum value of:
 - a) $y = \sin x$
 - b) $y = \cos x$
8. Does $y = \tan x$ have a minimum or maximum value? If not, explain why.

