3 Geometry and trigonometry

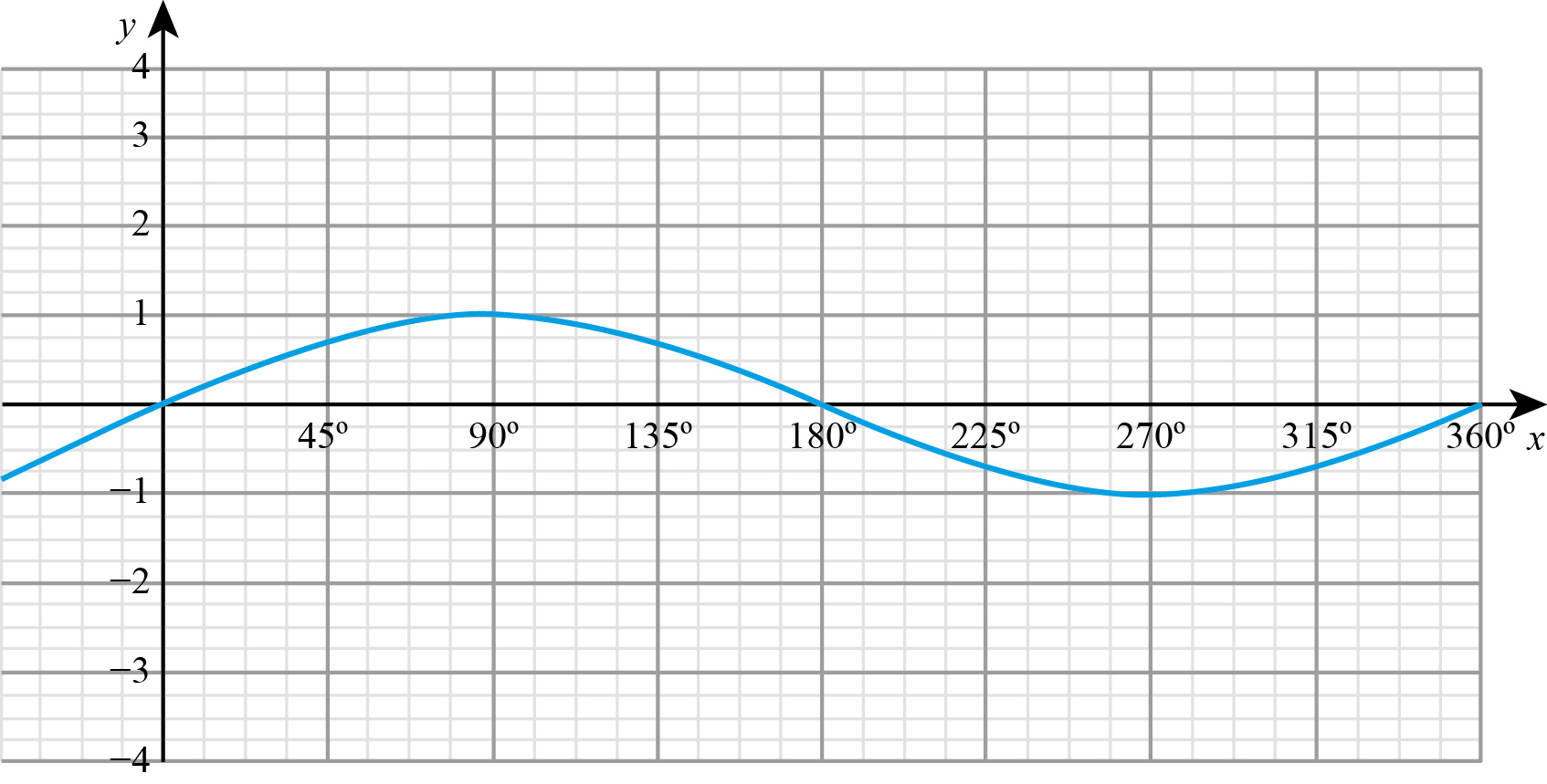
Activity: Trigonometric (circular) graphs

Questions

1 Give an explanation (not just a description) for how the sine of an angle can be found from the unit circle. Diagrams will be useful.

2 Give an explanation for how the unit circle relates to the graph of *y* = sin *x*. Again, diagrams would help.

3 Explain how to graph *y* = 3 sin (2*x*), given the graph of *y* = sin *x* shown below. Be sure to discuss period and amplitude.



4 Explain how to find the equation of the function below and then find **two** possible equations.

