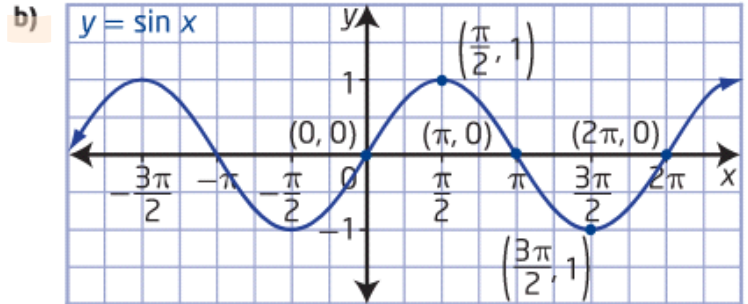


Practise

1. a) State the five key points for $y = \sin x$ that occur in one complete cycle from 0 to 2π .
- b) Use the key points to sketch the graph of $y = \sin x$ for $-2\pi \leq x \leq 2\pi$. Indicate the key points on your graph.
- c) What are the x-intercepts of the graph?
- d) What is the y-intercept of the graph?
- e) What is the maximum value of the graph? the minimum value?

1. a) $(0, 0), \left(\frac{\pi}{2}, 1\right), (\pi, 0), \left(\frac{3\pi}{2}, -1\right), (2\pi, 0)$



- c) x-intercepts: $-2\pi, -\pi, 0, \pi, 2\pi$
- d) y-intercept: 0
- e) The maximum value is 1 , and the minimum value is -1 .