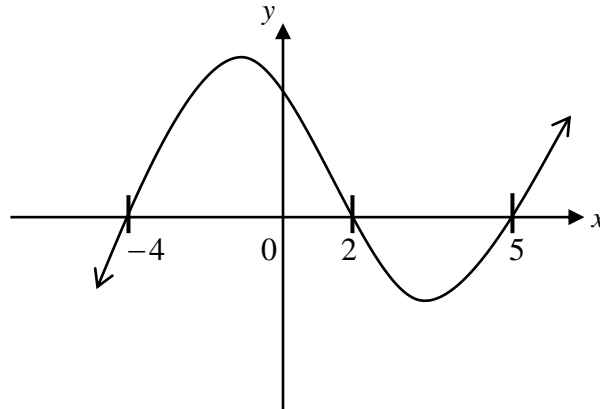


## 2021 Worksheet 5 Year 12 Mathematics

Write the answers in your Exercise Book.

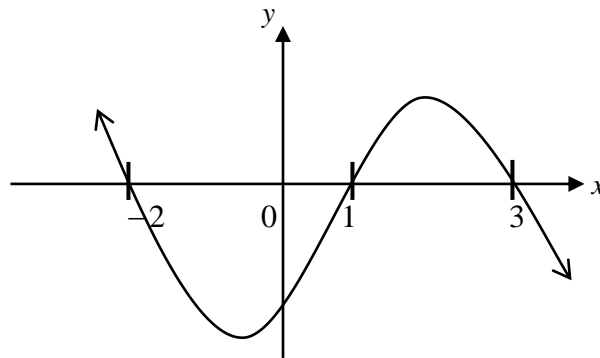
1. Give the **equation** of the functions shown below.

(a)



(1½ marks)

(b)



(1½ marks)

2. A hyperbolic function is given by  $y = \frac{x+2}{x-3}$

- (a) Find the **x – intercept** of this function. (½ mark)
- (b) Find the **y – intercept** of this function. (½ mark)
- (c) State the equation of the **vertical asymptote**. (½ mark)
- (d) State the equation of the **horizontal asymptote**. (½ mark)
- (e) Hence, sketch the **graph** of this function. (2½ marks)