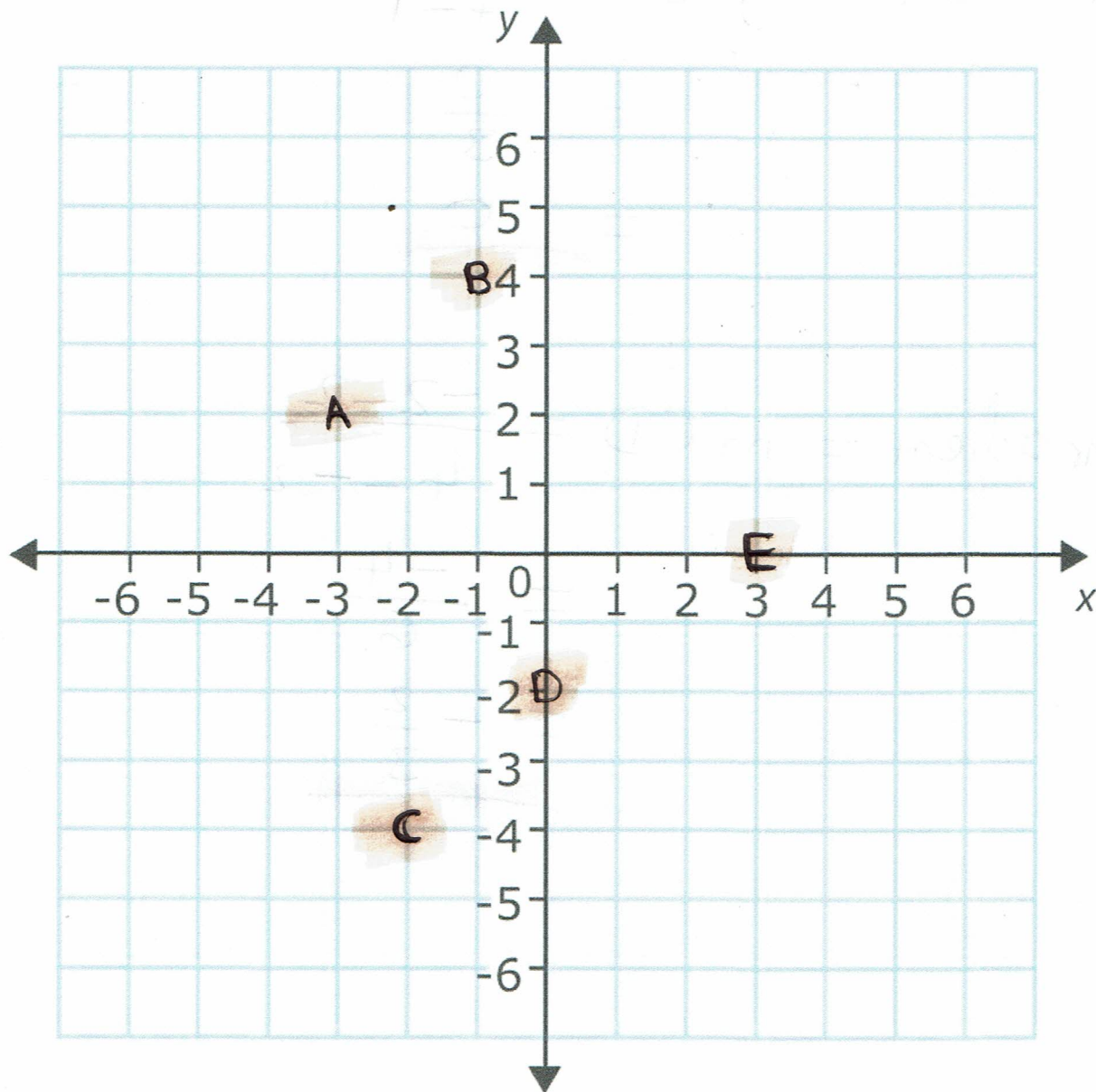


Exercise 1

MEMO



Coordinate Geometry Formulas

The following table gives some coordinate geometry formulas.

	FORMULA
1. Gradient/Slope	$\frac{y_2 - y_1}{x_2 - x_1}$
2. Midpoint	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$
3. Distance	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Exercise 2

MEMO

$$\begin{aligned} 1. \text{ Gradient} = m_{AB} &= \frac{2-2}{4-1} \\ &= \frac{0}{3} \\ &= \underline{0} \end{aligned}$$

$$\begin{aligned} 2. \text{ Gradient} = m_{CD} &= \frac{-2-2}{4--2} \\ &= \frac{-4}{6} \\ &= \underline{-\frac{2}{3}} \end{aligned}$$