

1 Calculate  $\frac{\sqrt[3]{16}}{1.3^2}$ .

$$= 1.49103082827796\dots$$

$$\approx 1.49$$

Answer ..... 1.49 ..... [1]

2 (a) Write 569 000 correct to 2 significant figures.

$$570000$$

Answer(a) ..... 570000 ..... [1]

(b) Write 569 000 in standard form.

$$5.69 \times 10^5$$

Answer(b) .....  $5.69 \times 10^5$  ..... [1]

3 Solve the simultaneous equations.

$$2x - y = 7$$

$$3x + y = 3$$

$$\begin{array}{r} 2x - y = 7 \\ 3x + y = 3 \quad + \\ \hline 5x = 10 \\ x = \frac{10}{5} \\ x = 2 \end{array}$$

$$\begin{array}{r} 2x - y = 7 \\ 2(2) - y = 7 \\ 4 - y = 7 \\ -y = 7 - 4 \\ -y = 3 \\ y = -3 \end{array}$$

Answer x = ..... 2 .....  
y = ..... -3 ..... [2]