

Section 1: Algebra

Chapter 2

Exercise D

$$(v) \quad \frac{2}{(3x-1)} + \frac{1}{(x+8)} = \frac{1}{2}$$

$$\times 2(3x-1)(x+8) \rightarrow 2(3x-1)(x+8) \cdot \frac{2}{(3x-1)} + 2(3x-1)(x+8) \cdot \frac{1}{(x+8)} = \frac{2(3x-1)(x+8)}{2}$$

$$\rightarrow 4x + 32 + 6x - 2 = 3x^2 + 23x - 8$$

$$\rightarrow 3x^2 + 13x - 38 = 0$$

$$\rightarrow (3x + 19)(x - 2) = 0$$

$$\rightarrow \underline{x = -6\frac{1}{3} \text{ or } x = 2.}$$