

5.2 Answers

5.2.1 Solutions (5.1 Exercise)

Answer 1

$$\frac{5x + 3}{(2x - 3)(x + 2)} = \frac{3}{(2x - 3)} + \frac{1}{(x + 2)}$$

i.e. $A = 3, B = 1$

Answer 2

$$\frac{3x - 1}{(1 - 2x)^2} = -\frac{3}{2(1 - 2x)} + \frac{1}{2(1 - 2x)^2}$$

i.e. $A = -\frac{3}{2}, B = \frac{1}{2}$

Answer 3

$$\frac{2x^2 + 5x - 10}{(x - 1)(x + 2)} = 2 - \frac{1}{x - 1} + \frac{4}{x + 2}$$

i.e. $A = 2, B = -1, C = 4$

Answer 4

$$\frac{9x^2 + 20x - 10}{(x + 2)(3x - 1)} = 3 + \frac{2}{x + 2} - \frac{1}{3x - 1}$$

i.e. $A = 3, B = 2, C = -1$

Answer 5

$$\frac{2}{(4 - y^2)} = \frac{2}{(2 + y)(2 - y)} = \frac{1}{2(2 + y)} + \frac{1}{2(2 - y)}$$

i.e. Both are $\frac{1}{2}$ however A and B are assigned