1.7 Answers

1.7.1 Solutions (1.5 Exercise)

Answer 1

$$\frac{x+7}{(x-5)(x+1)} = \frac{2}{(x-5)} - \frac{1}{(x+1)}$$

Answer 2

$$\frac{3x+11}{x^2+6x+5} = \frac{1}{(x+5)} + \frac{2}{(x+1)}$$

Answer 3

$$\frac{3(3x+1)}{x^2-9} = \frac{5}{(x-3)} + \frac{4}{(x+3)}$$

1.7.2 Solutions (1.6 Exercise)

Answer 1

$$\frac{3}{(x-2)} + \frac{4}{(x+5)} = \frac{7(x+1)}{(x-2)(x+5)}$$

Answer 2

$$\frac{8}{(x-5)} - \frac{3}{(x+2)} = \frac{5x+31}{(x-5)(x+2)}$$

Answer 3

$$\frac{3x^2-19x+24}{(x-1)(x-2)(x-3)} = \frac{4}{(x-1)} + \frac{2}{(x-2)} - \frac{3}{(x-3)}$$

Answer 4

$$\frac{10}{3x^3-x^2-2x} = -\frac{5}{x} + \frac{9}{(3x+2)} + \frac{2}{(x-1)}$$

Answer 5

$$\frac{3x}{(x-1)(x+2)(2x-1)} = \frac{1}{(x-1)} - \frac{2}{5(x+2)} - \frac{6}{5(2x-1)}$$

Answer 6

$$\frac{16}{21} = \frac{1}{3} + \frac{3}{7}$$

Answer 7

$$\frac{7}{15} = \frac{2}{3} - \frac{1}{5}$$