

Section 6.2 Focus Exercise Answers

1. a) $y + 5 + \frac{-7}{y + 5}$

or $y + 5 - \frac{7}{y + 5}$

c) $p^2 - p - 2 + \frac{5}{p + 3}$

b) $3x + 2 + \frac{-4}{x - 2}$

or $3x + 2 - \frac{4}{x - 2}$

d) $3m^2 + 3m - 2$

2. a) $4x - 5$

b) $3x - 2 + \frac{-3}{x + 2}$

or $3x - 2 - \frac{3}{x + 2}$

c) $x^2 - x + 2$

d) $5x^2 - x - 3 + \frac{5}{x + 3}$

e) $x^2 + 2x - 1 + \frac{-4}{5x + 2}$

f) $5x^2 + 3x - 2 + \frac{-1}{2x - 1}$

or $x^2 + 2x - 1 - \frac{4}{5x + 2}$

or $5x^2 + 3x - 2 - \frac{1}{2x - 1}$

3. a) $2x^2 - x + 5 + \frac{-4}{x + 5}$

or $2x^2 - x + 5 - \frac{4}{x + 5}$

b) $3x^2 + x - 5 + \frac{-8}{x - 4}$

or $3x^2 + x - 5 - \frac{8}{x - 4}$

c) $x^3 + 2x^2 - 5x - 10 + \frac{-4}{x - 2}$

or $x^3 + 2x^2 - 5x - 10 - \frac{4}{x - 2}$

d) $4x^2 - 4x + 4 + \frac{-9}{x + 1}$

or $4x^2 - 4x + 4 - \frac{9}{x + 1}$