Problems

4.6)

(a) $2x + 4y$

(b) $7(2x+4y) = 14x + 28y$

(c) $14x$

(d) $28y$

(e) $14x + 28y = 7(2x + 4y)$.

4.7)

(a) $14x + 12y$

(b) $2x + 4y$

(c) There are $12x$ more baseball players and $8y$ more Football players.

(d) $(14x + 12y) - (2x + 4y) = 12x + 8y$

4.8)

(a) $5(t+3s) = 5t + 15s$

(b) $3xy(x-y) = 3x^2y - 3xy^2$

(c) $(t+3r) - (2t - 5r + 1) = -t + 8r - 1$

(d) $3x - 3xy + 9 - 4x - 4xy - 28$

$-7xy - x - 19$

4.9)

(a) $3(x+2y)$

(b) $s(-3ab + 7cd)$

(c) $x(3x + 2z)$

(d) $7rs^2(r - 3s + 2s^2)$

4.10) $$\frac{2x+4y}{8} \cdot \frac{3xy}{x^2+2xy} = \frac{2^1(x+2y)}{8_4} \cdot \frac{3xy}{x(x+2y)}$$

$$= \frac{3y}{4}$$

Exercises

4.3.1)

(a) $6r - 24s$ (b) $2x^2 + 2xy - 6xz$

4.3.2)

(a) $(x+2y) - (3x - 2y)$

$-2x + 4y$

(b) $2t^2 - 4ts + 2s^2 - 4t^2 - 8ts - 4s^2$

$= -2t^2 - 2s^2 - 12ts$

4.3.3)

(a) $-8x + 24y$

$8(-x + 3y)$

(b) $20x^2y - 5xy$

$5xy(4x - 1)$

(c) $3r^3t^2 - 3r^2t + 7r$

$r(3r^2t^2 - 3rt + 7)$

(d) $3ac(-3a^2c + 6ac^2 - b)$

4.3.4)

$$\frac{2}{3a^2-6b} \cdot \frac{9a^3 - 18ab}{10a^2}$$

$$\frac{1}{3(a^2-2b)} \cdot \frac{3}{10a^2} = \frac{3}{5a}$$

4.3.5)

$(-4x+13y)A = -24x + 18y$

6 copias

4.3.6)

$2x(y+1) - 6x^2(y+1)$

$(y+1)(2x - 6x^2)$

$(y+1)(2x)(1 - 3x)$

4.3.7)

$(x+7)(y-4) = xy - 4x + 7y - 28$

$= -4x + 7y + xy - 28.$