4.34)

$$\frac{3rt(r-2t)(6r^3t^4)}{4t^2r(2t-r)(6r^3t^4)} = \frac{3r(r-2t)}{4(2t-r)}$$

$$= \frac{-3r(2t-r)}{4(2t-r)} = \underline{\frac{-3r}{4}}$$

4.35)

(a) $(x+1)(y+1)$

$xy + x + y + 1$

(b) $(x+3)(y-7)$

$xy - 7x + 3y - 21$

4.36)

$$\frac{3x^3}{2y^5} \cdot ? = \frac{6y^2}{5x^2}$$

$$\boxed{\frac{4y^7}{5x^5}}$$

4.37)

F y B: $10ab^2$

G y H: $20a^3b^2$

F y H: $4a^3b$

(a) La de George (b^2).

(b) El de George

(c) b^2, a^3,

$\boxed{20a^3b^2}$

F debe ser 2 o 1. a^0 o a^1 y b^0, b^1.

H debe ser 4. a^3 y b^0, b^1

B debe ser S, 10 . a^1 o a^0 y b^2

4.38)

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

$$x^2 + 2x - 2x - 4 = x^2 - 4$$

(b) $x^2 - y^2 = (x-y)(x+y)$

4.39)

$x = \frac{a}{b}$ $\quad \frac{a+b}{a-b}$

$$\frac{\frac{a}{x}x + \frac{a}{x}}{\frac{a}{x}\cdot x - \frac{a}{x}} = \frac{\frac{a}{x}(x+1)}{\frac{a}{x}(x-1)}$$

$$= \boxed{\frac{x+1}{x-1}}$$

4.40)

$$\frac{1}{1+\frac{1}{x}} = a \qquad 1 = a\left(1+\frac{1}{x}\right)$$

$$\frac{1}{a} = 1 + \frac{1}{x}$$

$$\frac{1}{a} - 1 = \frac{1}{x} \qquad x = \frac{1}{\frac{1}{a} - 1}$$

Cuando $a = 0$ y $a = 1$.

4.41)

$$\frac{6x-a}{x-3} = 3$$

$$\frac{6(x-3)}{x-3} = 6$$

$$6x - a = 3x - 9$$

$$3x = a - 9$$

$$x = \frac{a-9}{3}$$

a no puede ser 18.