Problemas

2.13)

(a)
$$\frac{6 \times 49}{12} = \frac{3(2 \times +3)}{3 \cdot 4} = \frac{2 \times +3}{4}$$

(6)
$$\frac{1}{3t^2+3t} = \frac{t}{t(3t+3)} = 3t+3$$

(c)
$$\frac{3\times-6}{x^2-2\times}=\frac{3(x-2)}{x(x-2)}=\frac{3}{x}$$

$$\frac{2}{3x} + \frac{3}{x} = \frac{2}{3x} + \frac{9}{3x} = \frac{11}{3x}$$

2.15)

$$(a) \frac{2}{x^{3}} + \frac{3x}{5} = \frac{10}{5x^{3}} + \frac{3x^{4}}{5x^{3}} = \frac{3x^{4} + 10}{5x^{3}}$$

(6)
$$\frac{4}{3y} - \frac{5-y}{5y^2} - \frac{20y}{15y^2} - \frac{3(5-y)}{15y^2}$$

$$= \frac{20y - 15 + 3y}{15y^2} = \frac{23y - 15}{15y^2}$$

$$\frac{3}{5} - \frac{3(\beta+2)}{5+2} - \frac{3(\beta+2)}{5(\beta+2)} - \frac{7\beta^{2}}{5(\beta+2)} - \frac{-7\beta^{2}+3\beta+6}{5(\beta+2)}$$

E Jercicios

2.4.1)

$$\frac{(a) -5x^2 + 25}{5x} = \frac{5(-x^2 + 5)}{5x} = \frac{-x^2 + 5}{x}$$

(6)
$$\frac{3r^3-21r}{9r^2} = \frac{3r(r^2-7)}{9r^2} = \frac{r^2-7}{3r}$$

$$\frac{3\times(\times+3)}{4\times^2(\times+3)}=\frac{3}{4\times}$$

$$\frac{3}{3x} - \frac{6x}{3} = \frac{3}{3x} - \frac{6x^{2}}{3x} = \frac{-6x^{2} + 3}{7x}$$

$$\frac{2^{\frac{1}{4}}}{7} + \frac{9-2^{\frac{1}{4}}}{7} = \frac{2^{\frac{1}{4}}}{7^{\frac{1}{4}}} + \frac{63-14^{\frac{1}{4}}}{7^{\frac{1}{4}}}$$

$$= 2^{\frac{1}{4}} - 14^{\frac{1}{4}} + 6^{\frac{1}{4}}$$

$$= \frac{2^{\frac{1}{4}}}{7^{\frac{1}{4}}} + \frac{63-14^{\frac{1}{4}}}{7^{\frac{1}{4}}}$$

$$\frac{3t^{-1}}{3t^{3}} + \frac{5}{6t^{2}} = \frac{6t^{-2}}{6t^{3}} + \frac{5t}{6t^{3}}$$
$$= \frac{11t^{-2}}{6t^{3}}$$

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

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

$$2.4.5$$
)
 $2 + \frac{3}{2} = \frac{2-2}{2-1}$

$$\frac{2 \cdot (2-1)}{2 \cdot (2-1)} + \frac{2 \cdot (2-1)}{2 \cdot (2-1)} - \frac{2 \cdot (2-1)}{2 \cdot (2-1)} = \frac{2 \cdot (2-1)}{2 \cdot (2-1)}$$