1 Frações e expoentes

1. (a)

$$\frac{x^2-9}{x^2+x-12} = \frac{(x+3)(x-3)}{(x+4)(x-3)} = \frac{x+3}{x+4}$$

(b)

$$\frac{3x^3+24}{x^3+x^2-2x}$$
$$\frac{3x^3+24}{x(x^2+x-2)}$$
$$\frac{3x^3+24}{x(x+2)(x-1)}$$
$$\frac{3(x^3+8)}{x(x+2)(x-1)}$$
$$\frac{3(x+2)(x^2-2x+4)}{x(x+2)(x-1)}$$
$$\frac{3(x^2-2x+4)}{x(x-1)}$$

(c)

$$\frac{x^3-1}{x^7-1}$$

2.