a)
$$\frac{6+2\times}{9-x^2} = \frac{2(3+x)}{3^2-x^2} = \frac{2(3+x)}{(3+x)(3-x)} = \frac{2}{3-x}$$

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

c)
$$\frac{X^2 + 2 \times + 1}{X + 1} = \frac{(X + 1)^2}{X + 1} = X + 1$$

d)
$$\frac{x^2 - 8x + 16}{x - 4} = \frac{x^2 - 2 \cdot x \cdot 4 + 4^2}{x - 4} = \frac{(x - 4)^2}{x - 4} = x - 4$$