

1.

$2x$

2.

$x + 6$

3.

$$\frac{y^n(y^x + y^y)}{y^x + y^y}$$

4.

$24x(3y - 2)$

5.

$$\frac{x(2x - 3) + 7(2x - 3)}{(x + 7)(2x - 3)}$$

6.

$$\frac{2a(x + 6) + 5(x + 6)}{(2a + 5)(x + 6)}$$

7.

$$\frac{x(x + 1) - 5(x + 1)}{(x + 1)(x - 5)}$$

8.

$7x^2(3x^2 + 6x - 7)$

9.

$$54xy + 90y = (w)(3x + 5)$$
$$w = 18y$$

10.

$A = lw; l = 25xy, A = 75x^2y^2 + 125xy^2$

$75x^2y^2 + 125xy^2 = (25xy)(w)$

$75x^2y^2 + 125xy^2 = 25xy(w)$

$w = (3xy + 5y)\text{ft}$