

## Equation worksheet

7.  $P(x) = ax(x+1)(x-2)$

point (1, -4)

$$-4 = a(1)(1+1)(1-2)$$

$$-4 = -2a$$

$$2 = a$$

$$P(x) = 2x(x+1)(x-2)$$

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

9.  $P(x) = -(x+1)(x+2)(x-3)$

10.  $P(x) = -x(x+3)(x-4)^2$

11.  $P(x) = \frac{1}{6}(x+3)(x-2)(x-4)$

12.  $P(x) = -\frac{1}{5}x(x+2)(x-2)^2$

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

14.  $P(x) = 2x^2(x+1)(x-2)$

15.  $P(x) = \frac{1}{3}x(x+2)(x-2)(x-4)$

16.  $P(x) = -x(x+1)^2$

17.  $P(x) = -\frac{1}{4}(x+2)^2(x-1)^2$

18.  $P(x) = -4x^3(x-2)$