

Algebra Worksheet 2

Expand and simplify:

1. $(2x + 1)(3x - 2) + (3 - 2x)^2$.

$$10x^2 - 13x + 7$$

2. $(3x - 1)^2 - (7x + 2)(x - 1)$.

$$2x^2 - x + 3$$

3. $4(x + 2) + 2(x - 1)^2$.

$$2x^2 + 10$$

4. $5x^2 - 6x - 3(2x + 1)^2$.

$$-7x^2 - 18x - 3$$

5. $(3x + 1)^2 - (6x - 1)^2$.

$$-27x^2 + 18x$$

6. $(5 - 2x)^2 - 2(5 - x)^2$.

$$2x^2 - 25$$

7. $(x + 2)^3$.

$$x^3 + 6x^2 + 12x + 8$$