

Multiplying Polynomials

Simplify:

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

2. $(2x - 4)(x + 6)$

3. $(-3x - 5)(2x - 9)$

4. $(x + 5)(x^2 + 4x + 8)$

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

6. $(x - 1)(2x^2 - 6x - 4)$

7. $(4x - 2)(x + 6)(3x + 3)$

8. $(2x + 1)(3x + 2)(x + 5)$

Situation 1: There is a square garden and the garden is going to be expanded in two directions. The length and width of the garden are going to be expanded by 3 feet. What is the area of the resulting garden?

Area = _____

Situation 2: Find the area of the shaded region.

