

This worksheet will cover the following:

Objective 1: Special Case Products: Perfect Square Trinomials

Objective 2: Factoring Perfect Square Trinomials

Objective 3: Factoring Trinomials by the AC-Method

Objective 4: Division by a Monomial

Objective 1: Special Case Products: Perfect Square Trinomials

Multiply the binomials.

1. $(x-8)(x-8)$

2. $(y+3)(y+3)$

Objective 2: Factoring Perfect Square Trinomials

Factor the polynomials.

3. $x^2 - 16x + 64$

6. $3t^2 + 18t + 27$

4. $y^2 + 6y + 9$

7. $25m^2 - 30mn + 9n^2$

5. $2a^2 - 20a + 50$

Objective 3: Factoring Trinomials by the AC-Method

Factor the trinomial.

8. $9h^2 - 3h - 2$

Objective 4: Division by a Monomial

Simplify the expressions.

9. $\frac{20-2\sqrt{3}}{4}$

10. $\frac{49-35\sqrt{2}}{7}$

11. $\frac{9+4\sqrt{3}}{3}$