

# Subtracting Quadratic Expressions (E)

Simplify each expression.

$$1. (-p^2 + 3p - 7) - (8p^2 + 3p - 2)$$

$$2. (6f^2 + 4f + 8) - (-2f^2 - 4f + 5)$$

$$3. (-4c^2 - 9c - 6) - (-6c^2 + 6c + 8)$$

$$4. (w^2 + 9w - 3) - (-9w^2 + 9w - 5)$$

$$5. (3n^2 + n - 6) - (9n^2 - 7n + 1)$$

$$6. (-2c^2 - 5c - 8) - (3c^2 + 8c - 5)$$

$$7. (9n^2 - 3n - 8) - (3n^2 - 7n + 3)$$

$$8. (-8a^2 - 8a - 2) - (-3a^2 - 6a + 9)$$

$$9. (3t^2 - 7t - 1) - (-7t^2 - 8t + 9)$$

$$10. (7a^2 - 2a) - (-5a^2 - 6a - 9)$$

# Subtracting Quadratic Expressions (E) Answers

Simplify each expression.

$$1. (-p^2 + 3p - 7) - (8p^2 + 3p - 2)$$

**-9p<sup>2</sup> - 5**

$$2. (6f^2 + 4f + 8) - (-2f^2 - 4f + 5)$$

**8f<sup>2</sup> + 8f + 3**

$$3. (-4c^2 - 9c - 6) - (-6c^2 + 6c + 8)$$

**2c<sup>2</sup> - 15c - 14**

$$4. (w^2 + 9w - 3) - (-9w^2 + 9w - 5)$$

**10w<sup>2</sup> + 2**

$$5. (3n^2 + n - 6) - (9n^2 - 7n + 1)$$

**-6n<sup>2</sup> + 8n - 7**

$$6. (-2c^2 - 5c - 8) - (3c^2 + 8c - 5)$$

**-5c<sup>2</sup> - 13c - 3**

$$7. (9n^2 - 3n - 8) - (3n^2 - 7n + 3)$$

**6n<sup>2</sup> + 4n - 11**

$$8. (-8a^2 - 8a - 2) - (-3a^2 - 6a + 9)$$

**-5a<sup>2</sup> - 2a - 11**

$$9. (3t^2 - 7t - 1) - (-7t^2 - 8t + 9)$$

**10t<sup>2</sup> + t - 10**

$$10. (7a^2 - 2a) - (-5a^2 - 6a - 9)$$

**12a<sup>2</sup> + 4a + 9**