

The Quadratic Formula and the Discriminant Bell Work

1. The solutions of a quadratic equation are also known as:

- a. roots
- b. zeros
- c. both a and b
- d. None of these

2. Write the following quadratic expression in two factors $y = 4x(x - 1) - 2(x - 1)$.

- a. $y = (4x - 1)(x - 2)$
- b. $y = (4x - 1)(x - 1)$
- c. $y = -(4x - 2)(x - 1)$
- d. $y = (4x - 2)(x - 1)$

3. Factor $y = x^2 - 6x + 8$

- a. $y = (x - 2)(x - 4)$
- b. $y = -(x + 2)(x - 4)$
- c. $y = (x - 2)(x + 4)$
- d. $y = -(x - 2)(x - 4)$

4. Factor $y = 12x^2 - 3x - 9$.

- a. $y = 12x(x - 9)$
- b. $y = 3(4x + 3)(x - 1)$
- c. $y = 3(x - 1)(4x - 3)$
- d. $y = 3(-x - 1)(4x + 3)$

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ANSWERS:

1. **both a and b**

2. $y = 4x(x - 1) - 2(x - 1)$

$y = (4x - 2)(x - 1)$

3. $y = x^2 - 6x + 8$

$y = x^2 - 4x - 2x + 8$

$y = x(x - 4) - 2(x - 4)$

$y = (x - 2)(x - 4)$

4. $y = 12x^2 - 3x - 9$

$y = 12x^2 - 12x + 9x - 9$

$y = 12x(x - 1) + 9(x - 1)$

$y = (12x + 9)(x - 1)$

$y = 3(4x + 3)(x - 1)$