

9.7 Using the Discriminant

Find the discriminant and state the number of solutions.

Ex) $2x^2 - 5x - 1$

$a = 2, b = -5, c = -1$

$b^2 - 4ac$

$= (-5)^2 - 4(2)(-1)$

$= 25 - 4(-8)$

$= 25 + 8$

$= 33$

33, 2 sol

STEPS

1) Identify your $a, b,$ and $c.$

2) Write the discriminant formula, $(b^2 - 4ac)$

3) Plug in your $a, b,$ and c into the formula.

- Use empty parentheses to save mistakes.

4) Simplify the expression using the rules of PEMDAS.

5) Your answer is known as the discriminant. It tells you how many solutions the quadratic has. If you answer is:

- Positive- 2 Solutions
- Zero- 1 Solution
- Negative- 0 Solutions

Find the discriminant and state the number of solutions.

1. $2x^2 + 5x + 1 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-5)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

2. $3x^2 + 5x + 2 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-5)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

3. $4x^2 + 3x + 2 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-3)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

4. $3x^2 + 6x + 3 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-6)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

5. $2x^2 - 4x + 1 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-4)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

6. $3x^2 - 2x + 4 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-2)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

7. $2x^2 - 4x + 2 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-4)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

8. $3x^2 - 7x + 3 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (-7)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

9. $2x^2 + 5x - 4 = 0$

$a = \underline{\hspace{1cm}} b = \underline{\hspace{1cm}} c = \underline{\hspace{1cm}}$

$b^2 - 4ac$

$= (5)^2 - 4(\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$=$

$= \underline{\hspace{1cm}}; \text{ 0 1 2 solutions}$

Practice 9 9 The Discriminant Answers

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