

6 1 completing the square worksheet ms warnock

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6.1 Completing the Square Worksheet with Ms. Warnock

Completing the Square

Completing the square is a method used to solve quadratic equations by converting them into the form $(x + a)^2 + b = c$. This allows us to easily find the roots of the equation by factoring and solving for x .

Worksheet Questions

Question 1: Complete the square for the equation $x^2 - 8x + _ = 0$.

Answer:

1. Add $(8/2)^2 = 16$ to both sides of the equation.
2. $x^2 - 8x + 16 = 0$

Question 2: Find the roots of the equation $x^2 + 10x + _ = 0$.

Answer:

1. Add $(10/2)^2 = 25$ to both sides of the equation.
2. $x^2 + 10x + 25 = 0$
3. $(x + 5)^2 = 0$
4. $x = -5$

Question 3: Solve the equation $x^2 - 4x + _ = 7$.

Answer:

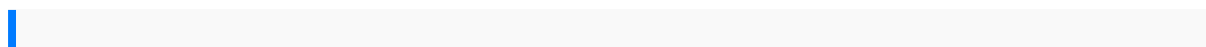
1. Add $(4/2)^2 = 4$ to both sides of the equation.
2. $x^2 - 4x + 4 = 11$
3. $(x - 2)^2 = 11$
4. $x = 2 \pm \sqrt{11}$

Additional Practice Problems:

- Complete the square for the equation $x^2 + 6x + _ = 0$.
- Find the roots of the equation $x^2 - 2x + _ = 4$.
- Solve the equation $x^2 + 8x + _ = 2$.

Conclusion

Completing the square is a valuable technique for solving quadratic equations. By following the steps outlined in this worksheet, students can effectively complete the square and find the roots of these equations.



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