Topic: Completing the Square - Worksheet 1

1. \( x^2 + 8x - 6 = 0 \)  
2. \( x^2 + 6x + 9 = 0 \)

3. \( 2x^2 - 20x - 64 = 0 \)  
4. \( x^2 + 16x + 24 = 0 \)

5. \( x^2 + 4x + 10 = 0 \)  
6. \( x^2 + 8x + 7 = 0 \)

7. \( x^2 + 24x - 16 = 0 \)  
8. \( x^2 + 4x - 3 = 0 \)

What values would be placed in the boxes to create perfect square trinomials?

9. \( x^2 + 16x + \square \)  
10. \( x^2 - 3x + \square \)
Topic: Completing the Square - Worksheet 2

1. \( x^2 + 20x - 96 = 0 \)  
2. \( x^2 + 4x + 3 = 0 \)  

3. \( 2x^2 - 8x - 192 = 0 \)  
4. \( x^2 + 8x + 5 = 0 \)  

5. \( x^2 + 18x + 65 = 0 \)  
6. \( x^2 + 18x + 56 = 0 \)  

7. \( x^2 + 12x - 28 = 0 \)  
8. \( x^2 + 6x - 27 = 0 \)  

What values would be placed in the boxes to create perfect square trinomials?

9. \( x^2 + 6x - \Box \)  
10. \( x^2 + 10x + \Box \)
Topic: Completing the Square - Worksheet 3

1. \(x^2 + 10x - 56 = 0\)  
2. \(x^2 + 8x + 1 = 0\)

3. \(3x^2 - 6x - 144 = 0\)  
4. \(x^2 - 4x + 2 = 0\)

5. \(x^2 + 6x - 16 = 0\)  
6. \(x^2 + 2x - 80 = 0\)

7. \(x^2 + 4x - 60 = 0\)  
8. \(x^2 + 8x - 9 = 0\)

What values would be placed in the boxes to create perfect square trinomials?

9. \(x^2 + 2x - \square\)  
10. \(x^2 + 6x - \square\)
Topic: Completing the Square - Worksheet 4

1. \(x^2 + 8x - 33 = 0\)  
2. \(x^2 + 6x + 7 = 0\)

3. \(2x^2 - 8x - 64 = 0\)  
4. \(x^2 - 4x - 4 = 0\)

5. \(x^2 + 2x - 2 = 0\)  
6. \(x^2 + 4x + 10 = 0\)

7. \(x^2 + 14x - 72 = 0\)  
8. \(x^2 + 4x - 21 = 0\)

What values would be placed in the boxes to create perfect square trinomials?

9. \(x^2 - 4x - \square\)  
10. \(x^2 + 8x + \square\)

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Topic: Completing the Square - Worksheet 5

1. \( x^2 + 16x - 57 = 0 \)  
2. \( x^2 + 6x - 7 = 0 \)

3. \( 3x^2 - 18x - 81 = 0 \)  
4. \( x^2 - 4x + 6 = 0 \)

5. \( x^2 + 20x + 40 = 0 \)  
6. \( x^2 + 2x - 8 = 0 \)

7. \( x^2 - 16x + 15 = 0 \)  
8. \( x^2 - 12x + 32 = 0 \)

What values would be placed in the boxes to create perfect square trinomials?

9. \( x^2 + 4x - \square \)  
10. \( x^2 - 6x + \square \)

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