

Factor each of the following quadratic equations and determine the EXACT solutions to each of the equations

1. $x^2 - 18x - 40 = 0$

5. $2x^2 + 10x = 0$

Completely factored form _____
 Related EXACT Solutions _____

Completely factored form _____
 Related EXACT Solutions _____

2. $x^2 - 2x - 35 = 0$

6. $4x^2 - 18 = 0$

Completely factored form _____
 Related EXACT Solutions _____

Completely factored form _____
 Related EXACT Solutions _____

3. $x^2 + 12x - 13 = 0$

7. $-2x^2 + 11x = 0$

Completely factored form _____
 Related EXACT Solutions _____

Completely factored form _____
 Related EXACT Solutions _____

4. $x^2 + 9x + 18 = 0$

8. $-2x^2 + 32 = 0$

Completely factored form _____
 Related EXACT Solutions _____

Completely factored form _____
 Related EXACT Solutions _____

9. $x^2 - 12x + 36 = 0$

Completely factored form _____
Related EXACT Solutions _____

10. $x^2 + 10x + 25 = 0$

Completely factored form _____
Related EXACT Solutions _____

11. Given an example of a PRIME quadratic trinomial

12. Give an example of a PRIME quadratic binomial

13. Explain why a quadratic binomial that is missing its constant term is always factorable

Name _____ FA/SA Factoring Quadratics Hour _____

Factor each of the following quadratic equations and determine the EXACT solutions to each of the equations

1. $x^2 - 6x - 40 = 0$

5. $3x^2 + 10x = 0$

Completely factored form _____
Related EXACT Solutions _____

Completely factored form _____
Related EXACT Solutions _____

2. $x^2 - 12x + 35 = 0$

6. $4x^2 - 20 = 0$

Completely factored form _____
Related EXACT Solutions _____

Completely factored form _____
Related EXACT Solutions _____

3. $x^2 - 11x + 18 = 0$

7. $-2x^2 + 11x = 0$

Completely factored form _____
Related EXACT Solutions _____

Completely factored form _____
Related EXACT Solutions _____

4. $x^2 + 14x + 13 = 0$

8. $-3x^2 + 27 = 0$

Completely factored form _____
Related EXACT Solutions _____

Completely factored form _____
Related EXACT Solutions _____

9. $x^2 + 14x + 49 = 0$

Completely factored form _____

Related EXACT Solutions _____

10. $x^2 - 18x + 81 = 0$

Completely factored form _____

Related EXACT Solutions _____

11. Given an example of a PRIME quadratic trinomial

12. Give an example of a PRIME quadratic binomial

13. Explain why a quadratic binomial that is missing its constant term is always factorable