

Solving Quadratics by Factoring WS_1	Period (circle one): 5 7	Date:	Name:
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Solve each quadratic

1. $x^2 - 5x - 6 = 0$

2. $x^2 + 5x - 24 = 12$

3. $x^2 - 28x + 75 = 0$

4. $x^2 + 15x + 32 = -3x$

5. $5x^3 - 19x^2 + 12x = 0$

6. $6x^2 - 4x - 4 = 12$

7. $6x^2 + 17x + 11 = 0$

8. Lupe has a rectangular garden. The length of the garden is 2 ft. less than three times its width
- Write two variable expressions for the dimensions of the garden

Length:

Width:

- If you were told that the area of the garden is 96 ft^2 , how could you figure out what the dimensions of the garden are in feet? Explain your steps; describe what you know and *how* you can then use that information to figure out the actual dimensions of the garden.

- What are the actual dimensions of the garden?