SOLVING QUADRATIC EQUATIONS BY FACTORING – Day 1

Solve.

1.
$$(y-5)(y-7)=0$$

2.
$$y^2 - 9 = 0$$

3.
$$w^2 - 2w = 63$$

4.
$$2n^2 - 40n = 0$$

$$5. \ y^2 - 3y + 2 = 0$$

$$6. \ \ x^2 - 9x - 36 = 0$$

7.
$$0 = x^2 + 14x + 48$$

8.
$$m^2 - 36 = 16m$$

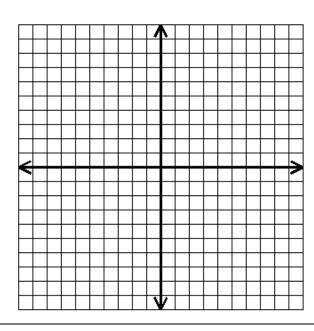
9.	r ² +	9 =	10r
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10.	$y^2 =$	17y –	- 72

Find the dimension indicated.

11. The area of a rectangle is represented by the equation $w^2 + 4w = 60$, where w is the width of the rectangle. Find the width.

12. The area of a triangle is represented by the equation $h^2 - h = 12$, where h is the height of the triangle. Find the height, and sketch a graph of the related quadratic function.



REVIEW. Show all work.

(3x + 2) and	d (2x + 1).