Worksheet 08.1c Solving Trinomials by Factoring Name:_____

Solve each equation by factoring.

1.
$$(x+1)(x-5) = 0$$

2. $(a+1)(a+2) = 0$

3.
$$(4x + 5)(x + 1) = 0$$

4. $(2m + 3)(4m + 1) = 0$

5.
$$n^2 - 10n + 24 = 0$$

6. $n^2 + 3n - 18 = 0$

7.
$$r^2 - 2r + 1 = 0$$

8. $a^2 + 8a + 15 = 0$

9.
$$x^2 - 9x + 18 = 0$$
 10. $x^2 + 5x + 4 = 0$

11.
$$x^2 - 11x + 25 = -3$$

12. $k^2 + 15k + 6 = -50$

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13. $x^2 + 17x + 49 = 3x$

14. $x^2 + 6x + 1 = -3 + x$

15. The length of a rectangle is (x + 8) feet and the width is x. The area of the rectangle is 84 square feet. Find its length and width.

16. Two consecutive numbers can be expressed as (x) and (x + 1). The product of the two consecutive integers is 72. What are the two numbers?