**12.** Solve:  $a^2 + 13a = -42$ 

## +42 +42

Solve each equation. Check the solutions (7+5)(7+5) (7+5)(7+5)13. Factor:  $49w^2-25$  (7+5)(4-b) (7+5)(4-b)13.

$$(a + b)(a - b)$$

**14.** Solve: -6(3n-2) = 4(-3-2n)

14.

15. Solve: 
$$4y^2 + 16y + 7 = (6y^2 + 5y) - (2y^2 + 15)$$

15.\_\_\_\_

16. Factor completely:  $8n^2 - 48n + 40$  HINT: GCF first!

16.\_\_\_\_

16.					

**16.** Factor completely:  $8n^2 - 48n + 40$  HINT: GCF first!



$$8^{\frac{16}{2}-48n+40 \text{ HINT: GCF first!}}$$

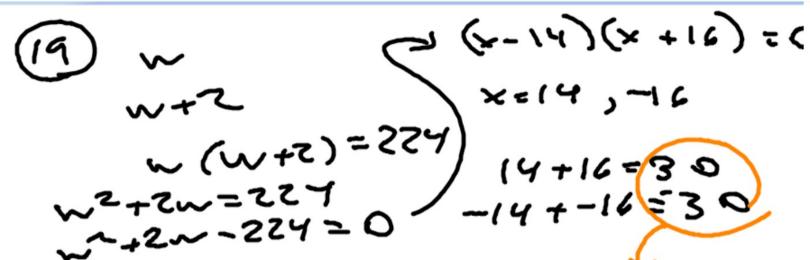
18. BASEBALL Tonisha hit a baseball into the air with an initial upward velocity of 48 feet per second. The height h in feet of the ball above the ground can be modeled by  $h = -16t^2 + 48t + 2$ , where t is the time in seconds after Tonisha hit the baseball. Find the time it takes the ball to reach 38 feet above the ground.

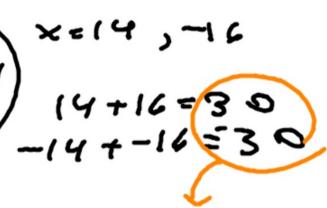
I do care

Xro I h = 38,

Xro I need

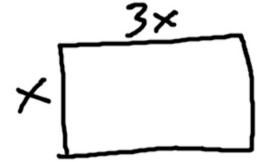
X D L.





- 19. The product of two consecutive even integers is 224. Find their sum.
- 20. The length of a rectangle is three times the width. The area is 64 square centimeters. What is the length?





19.

