| **Find the value that forms a perfect square trinomial.**		
1. $x^2 + 24x +$ _____	**2.** $x^2 - 11x +$ _____	**1.** _____ **2.** _____

3. Which of the following statements is true?
 	
   A. All Quadratic equations have one solution.
 	
   B. The square root of a negative number provides 2 imaginary solutions
 	
   C. The coefficient is the term in an equation that is not attached to a variable.
 	
   D. All the above.
 	
   E. None of the above
	4. Which of the following statements is true?
	
	   A. The constant is the term in an equation that is not attached to a variable.
	
	   B. The process of **completing the square** is performed to allow you to factor a **Perfect Square Trinomial** on left side of a quadratic equation.
	
	   C. The **Constant** is the number in front of **x**.
	
	   D. **None of the above**
	
	   E. **A and B are true**
	
	   F. **B and C are true**
		3._____
		
		 4._____

Factor the following Perfect Square Trinomials.		

5.
 	
   $x^2 + 24x + 144 = ($ $)$
	6.
	
	   $9x^2 + 48x + 64 = ($ $)$
		5._____
		
		 6._____

Solve the following by <u>Completing the Square</u>. (Show all necessary steps.)		
6. $x^2 - 10x + 24 = 0$	**7.** $x^2 - 4x = -3$	**6.** _____ **7.** _____

8. $x^2 + 6x + 3 = 0$

9. $x^2 + 8x + 20 = 0$

8. _____

9. _____

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10. Find the value of x, for the given Parallelogram if the area = 48ft ^{2} (Hint: Area = base x height)

x ft

(x+6) ft
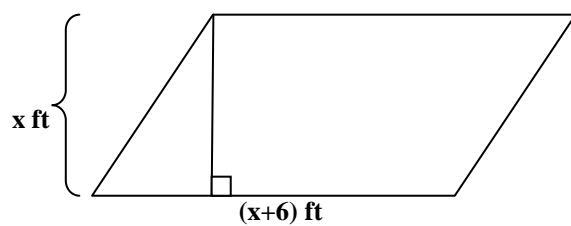
10. _____

Multiple Choice.

11. What are the solutions of $x^2 - 10x - 15 = 0$?

A. $5 \pm 2i\sqrt{10}$ B. $-5 \pm 2\sqrt{10}$

C. $5 \pm 2\sqrt{10}$ D. $-5 \pm 2i\sqrt{10}$

11. _____