

Quadratics Review - Solving Quadratic Equations

For the following problems, solve for x. Check your answers to see if they are correct.

1. $5x^2 + 15 = 60$

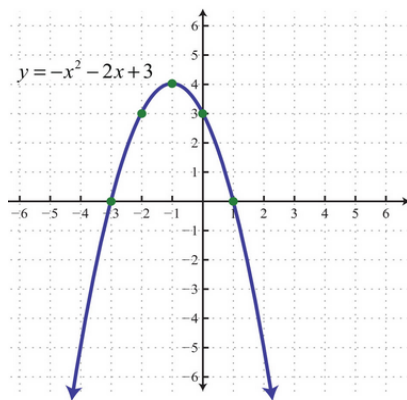
2. $x^2 + 16 = 0$

3. Solve for x. Explain your steps. $6x^2 + 8x = 0$

4. Solve for x. Then construct a rough graph, showing the x-intercepts and y-intercept.

$$x^2 - 7x + 12 = 0$$

5. According to the graph, what are the solution(s) to $y = 0$?



6. According to the table, what are the solution(s) to $y = 0$?

X	Y ₁	
-5	3	
-4	0	
-3	-1	
-2	0	
-1	3	
0	8	
1	15	
X = -5		

7. Add: $(3x - 5) + (x + 2)$

8. Subtract: $(3x - 5) - (x + 2)$

9. Multiply: $(3x - 5)(x + 2)$

10. Multiply: $(3x - 5)(x + 2)(x - 4)$

11. Factor: $x^3 - 2x^2 + 5x - 10$

12. Factor: $9x^2 - 16$

13. Solve the following problem using BOTH the Quadratic Formula and Completing the Square. For this problem, which method do you prefer and why?
 $x^2 - 6x + 20 = 0$