

Solving Equations by Factoring

Name _____ Pd. ____

Write the 4 steps, in order, for solving a quadratic equation.

- 1.
- 2.
- 3.
- 4.

When you verify your solutions to an equation using the graphing calculator, what point on the graph are you looking for? (Name all 3 ways of describing it).

- a) b) c)

1. $x(x-7) = 0$

2. $4b(b + 4) = 0$

3. $(2z + 1)^2 = 0$

4. $y^2 = 3y$

5. $c^2 - 9 = 0$

6. $h^2 + 14 = -9h$

7. $-f - 6 = -f^2$

8. $j^2 - 64 = 0$

9. $r^3 - 2r^2 - 15r = 0$

10. $z^2 - z = 30$

11. $4v^2 + 3v = 10$

12. $x^2 + 15x = -44$

13. $23x - 6 = -4x^2$

14. $t^2 = 5t$

15. $p^2 - 19p + 70 = 0$

16. $x^2 - 2x$ represents the area of a rectangle with length x . Find x if the area is 35.