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.