

**Quadratics 2b – Quadratic Functions
Solving & Graphing Factored Form
Homework #9**

***Do on a separate sheet of paper in
Power HW format!!**

Solve the following equations:

1. $3x(x - 5) = 0$ 2. $(2x - 7)(5x + 75) = 0$ 3. $(9x + 3)(x - 7) = 0$ 4. $(x - 2)(4x + 8) = 0$

**Graph the following quadratic functions. Identify the x - & y -intercepts, the vertex, domain and range.
USE GRAPH PAPER!**

5. $f(x) = (x + 2)(x - 2)$

8. $f(x) = -\frac{1}{2}(x + 1)(x - 3)$

6. $f(x) = -(x + 2)(x - 1)$

9. $k(x) = 2(x - 1)(x + 3)$

7. $f(x) = (x - 3)(x - 5)$

10. $m(x) = \frac{1}{2}(x - 4)(x - 6)$

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