## Graphing Quadratics HW\_1

Tuesday, April 28, 2015

Graphing Quadratics <b>HW_1</b> Period (circle one): 5 7	7 Date: Name: Key
Multiply  1. $(2x-4)(6x-8)$ $12x^{2}-40x+32$	Multiply 2. $(x-6)(x+2)$ $\chi^{\lambda} - 4\chi - 1\lambda$
Factor 3. $x^2 - 10x + 16$ $(x - 6)(x - 4)$	Factor 4. $3x^2 + 22x + 40$ $(3x + 10)(x + 4)$
Solve 5. $x^2 - 4x - 32 = 0$ $(x - 8)(x + 4) = 0$ $x = 8$ or $x = -4$	Solve 6. $-2x^2 + 12x - 12 = 4$ $-4$ $-4$ $-4$ $-16 = 0$ $-1(x^2 - 6x + 8) = 0$ $-2(x - 4)(x - 2) = 0$
Graph  7. $y = x^2 + 8x + 12$ Vertex: $x = -\frac{b}{2a}$ $y = (-4)^2 + 8(-4) + 12$ $x = -\frac{(s)}{2(1)}$ $y = (b + -3) + 12$ $y = -\frac{1}{2(1)}$	27
Graph a=-1 b=-2 (=3 8. $y = -x^2 - 2x + 3$ $y = -(-1)^2 - 2(-1) + 3$ $x = \frac{-b}{2a}$ $x = -1 + 2 + 3$ $x = -(-2) = \frac{2}{2}$ $y = -1 + 2 + 3$ y = -1 + 2 + 3 y = -1 + 3 + 3 y = -1	(-1,4)

