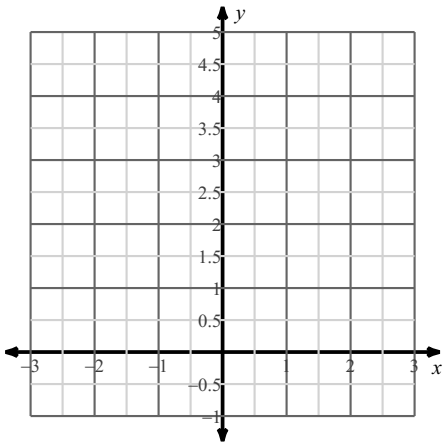
Sec 2 H Graphing Quadratic Functions Name_____

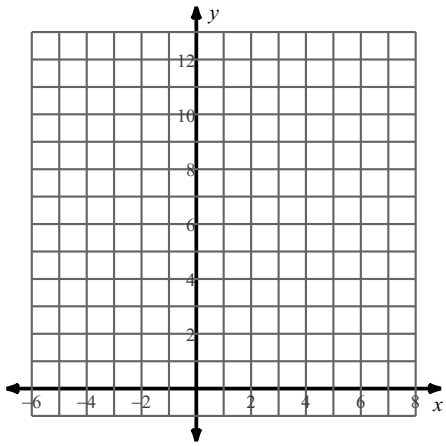
Day 3 In class and Hw

Sketch the graph of each function. NO CALCULATOR!!! Make sure to graph at least 5 points. Then list A) domain, B) range, C) intervals of increasing and decreasing,D) x and y intercepts, and E) vertex.

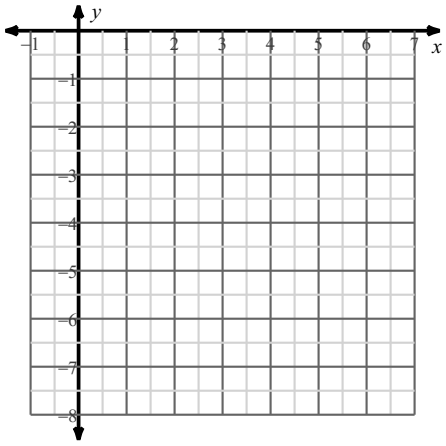
1) $y = x^2$



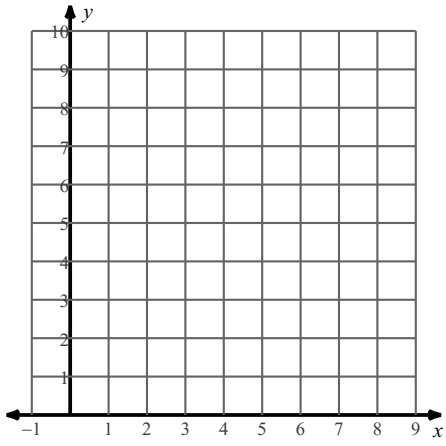
2) $y = 3x^2$



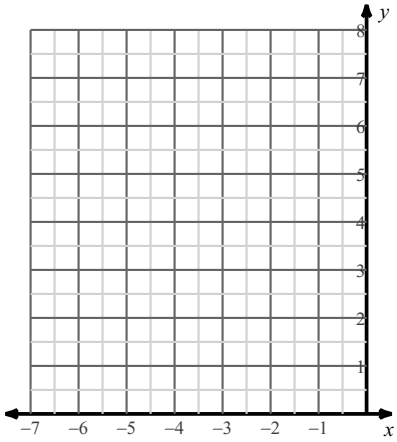
3) $y = -x^2 + 6x - 12$



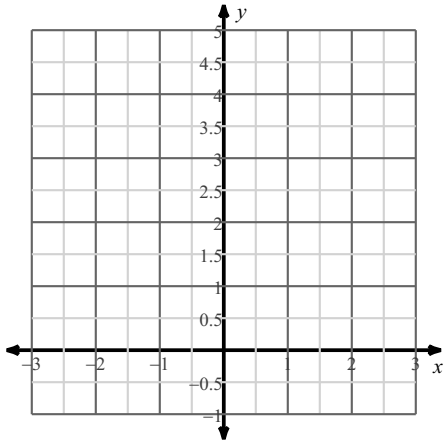
4) $y = 2x^2 - 12x + 19$



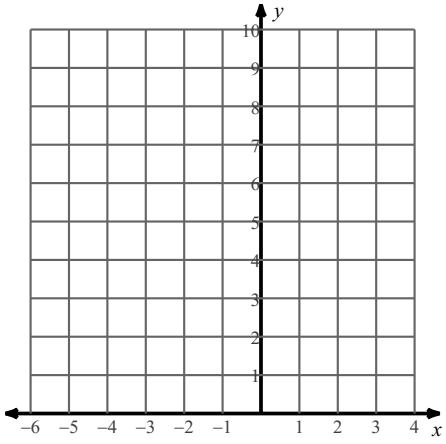
5) $y = x^2 + 8x + 19$



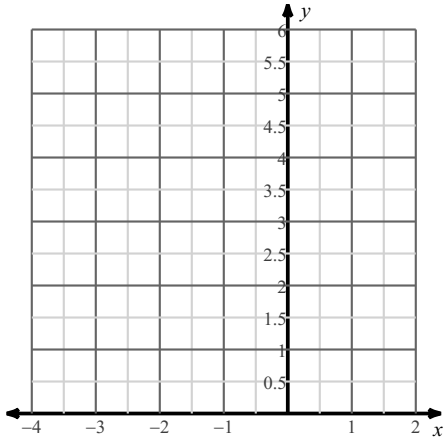
6) $y = -x^2 - 2x + 3$



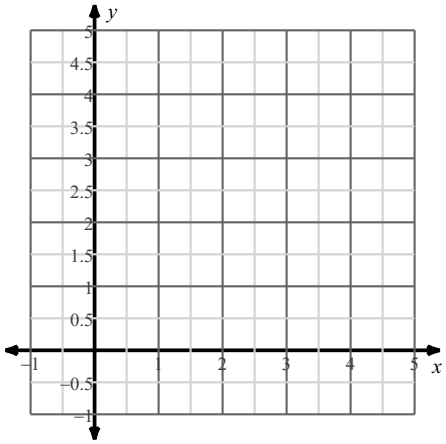
7) $y = 2(x + 1)^2 + 1$



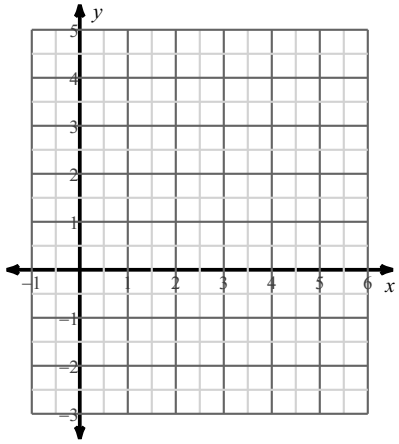
8) $y = (x + 2)^2 + 1$



9) $y = -(x-1)^2 + 4$



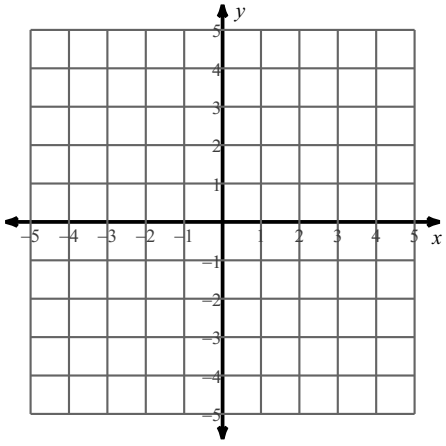
10) $y = (x-4)^2 - 1$



Solve each system by graphing.

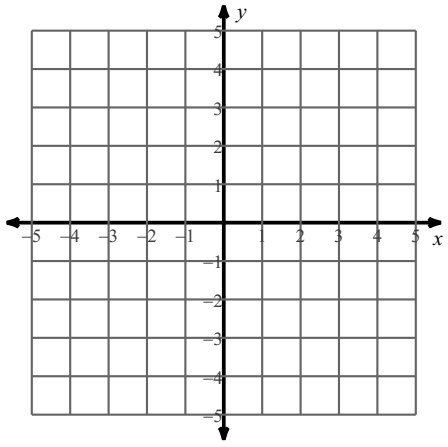
11) $y = -3x + 4$

$y = -\frac{1}{2}x - 1$



12) $-4x + 1 - y = 0$

$y = -2 - x$



BRING A GRAPHING CALCULATOR NEXT CLASS!!!!!

13) BRING A GRAPHING CALCULATOR NEXT CLASS!!!!!