

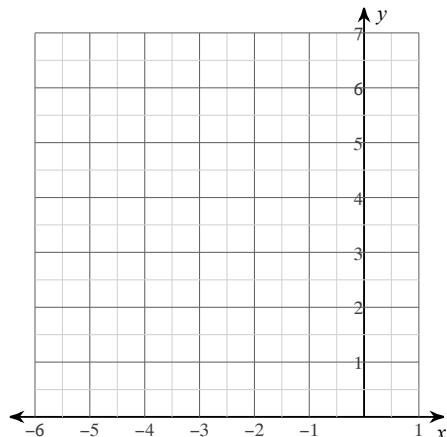
DUE WED 3/29 No work=nocredit

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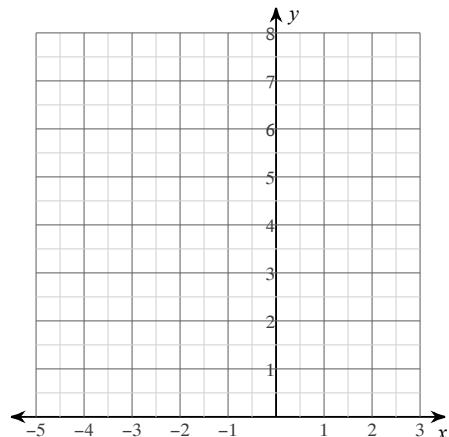
HW: Graphing Quadratics and Solving by Factoring DUE WED 3/29 Period ____

Sketch the graph of each function.

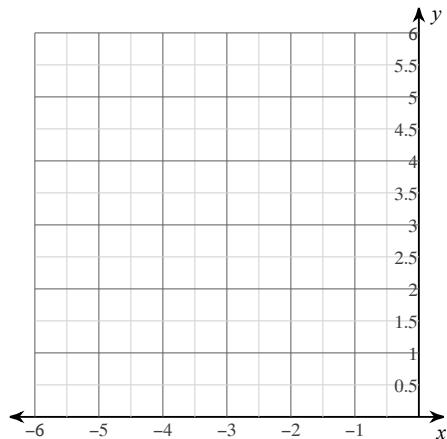
1) $f(x) = x^2 + 8x + 18$



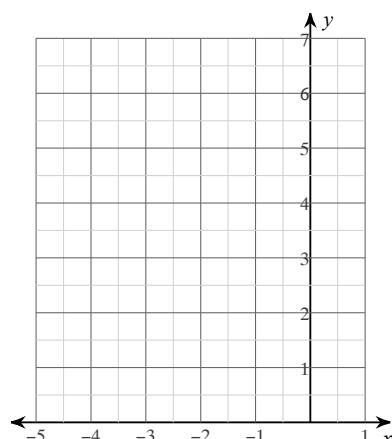
2) $f(x) = x^2 + 2x + 4$



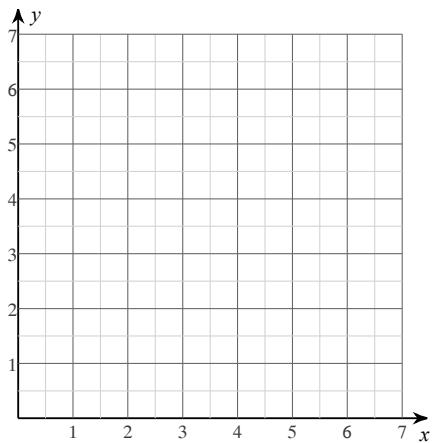
3) $f(x) = x^2 + 4x + 5$



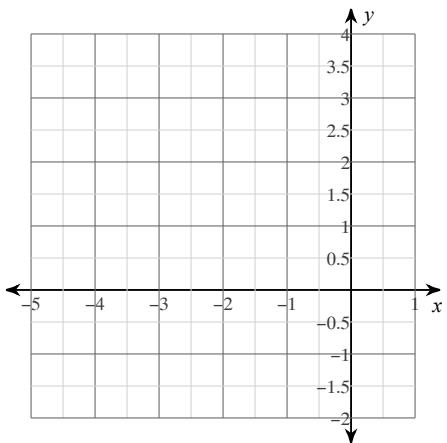
4) $f(x) = (x + 2)^2 + 2$



$$5) \ f(x) = (x - 4)^2 + 2$$



$$6) \ f(x) = (x + 1)^2 - 1$$



Solve each equation by factoring.

$$7) \ m^2 + 6m - 16 = 0$$

$$8) \ k^2 + 3k + 2 = 0$$

$$9) \ p^2 - 8p + 7 = 0$$

$$10) \ x^2 - 49 = 0$$

$$11) \ x^2 + 12x + 35 = 0$$

$$12) \ x^2 - 4x + 3 = 0$$

$$13) \ r^2 + 8r + 15 = 0$$

$$14) \ x^2 + 16x + 64 = 0$$

$$15) \ n^2 + 2n - 48 = 0$$

$$16) \ x^2 + 4x - 32 = 0$$

$$17) \ b^2 - 12b + 32 = 0$$

$$18) \ n^2 - 4n - 21 = 0$$

$$19) \ a^2 + a - 12 = 0$$

$$20) \ n^2 - 3n - 40 = 0$$