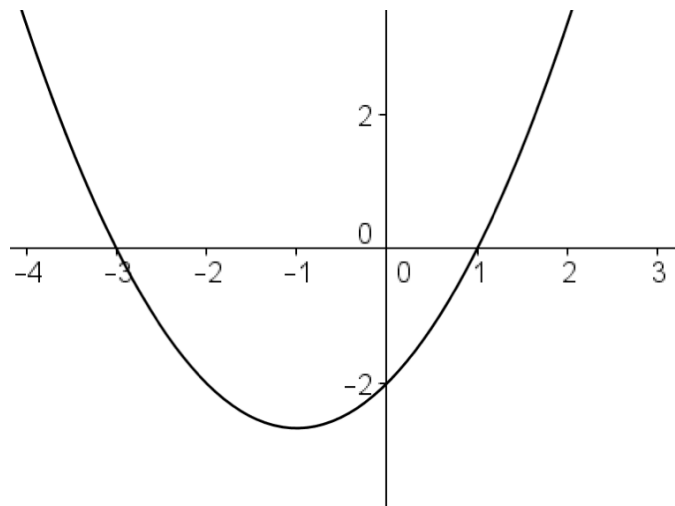


**Quadratics 3b - Factoring**  
**Factorable Quadratic Functions**  
**Homework #11**

- 1) Graph the function defined by  $f(x) = -2(x + 2)(x - 4)$  on graph paper. Be sure to indicate both coordinates of the vertex and  $y$  - intercept.
- 2) Find the symbolic representation of the quadratic function show at the right and determine both coordinates of the vertex.

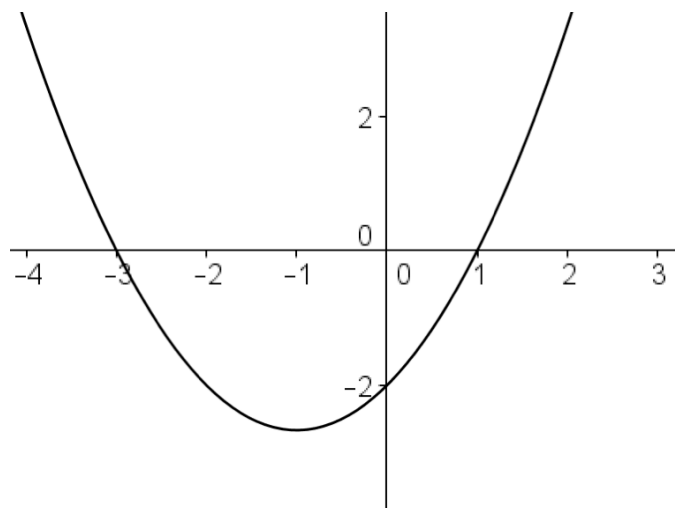


**Factor. If it cannot be factored, say so.**

- |                      |                       |
|----------------------|-----------------------|
| 3) $x^2 + 9x + 14$   | 9) $7u^2 - 4u - 3$    |
| 4) $x^2 - 16x + 51$  | 10) $x^2 + 4x + 4$    |
| 5) $5x^2 + 5x - 10$  | 11) $16t^2 - 9$       |
| 6) $p^2 - 5p - 6$    | 12) $8y^2 - 28y - 60$ |
| 7) $3x^2 + 17x + 10$ | 13) $2x^2 - 50$       |
| 8) $10x^2 - 19x + 6$ |                       |

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