

$$\textcircled{1} f(x) = x^2 - 8x + 15$$

| x | $x^2 - 8x + 15$ | f(x) |
|---|-----------------|------|
| 0 |                 | 15   |
| 1 |                 |      |
| 2 |                 |      |
| 3 | $9 - 24 + 15$   | 0    |
| 4 | $16 - 32 + 15$  | -1 * |
| 5 | $25 - 40 + 15$  | 0    |

$$\textcircled{2} f(x) = -x^2 - 4x + 12$$

| x  | $-x^2 - 4x + 12$ | f(x) |
|----|------------------|------|
| -3 | $-9 + 12 + 12$   | 15   |
| -2 | $-4 + 8 + 12$    | 16 * |
| -1 | $-1 + 4 + 12$    | 15   |
| 0  |                  | 12   |

$$\textcircled{3} f(x) = 2x^2 - 2x + 1$$

| x | $2x^2 - 2x + 1$ | f(x) |
|---|-----------------|------|
| 0 |                 | 1    |
| 1 | $2 - 4 + 1$     | -1 * |
| 2 | $8 - 8 + 1$     | 1    |

$$\textcircled{4} f(x) = x^2 + 2x - 8$$

| x  | $x^2 + 2x - 8$ | f(x) |
|----|----------------|------|
| -2 | $4 - 4 - 8$    | -8   |
| -1 | $1 - 2 - 8$    | -9 * |
| 0  | $4 + 4 - 8$    | -8   |
| 1  |                |      |

$$\textcircled{5} f(x) = x^2 - 6x + 14$$

| x | $x^2 - 6x + 14$ | f(x) |
|---|-----------------|------|
| 2 | $4 - 12 + 14$   | 6    |
| 3 | $9 - 18 + 14$   | 5 *  |
| 4 | $16 - 24 + 14$  | 6    |
| 0 |                 | 14   |

$$\textcircled{6} f(x) = -x^2 + 14x - 57$$

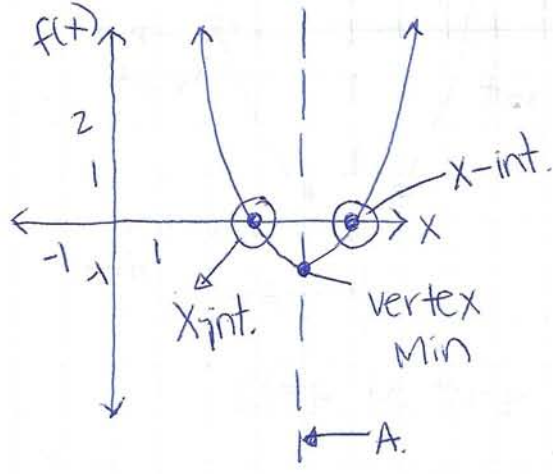
| x | $-x^2 + 14x - 57$ | f(x) |
|---|-------------------|------|
| 0 |                   | -57  |
| 6 | $-36 + 84 - 57$   | -9   |
| 7 | $-49 + 98 - 57$   | 76 * |
| 8 | $-64 + 112 - 57$  | -9   |

Honors  
HW#1 LT 3.1 Graph using a Table

**LEGEND**  
 $y_i$  = y-intercept  
 A = Axis of symmetry  
 $x_i$  = x-intercept  
 V = vertex

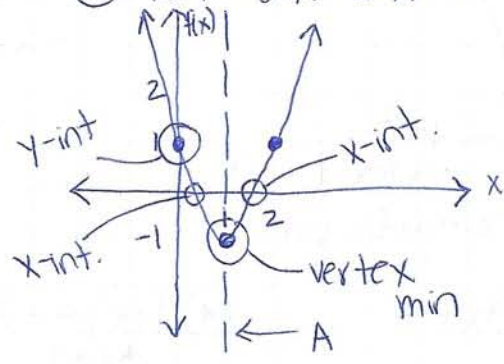
①  $f(x) = x^2 - 8x + 15$

1/15/15

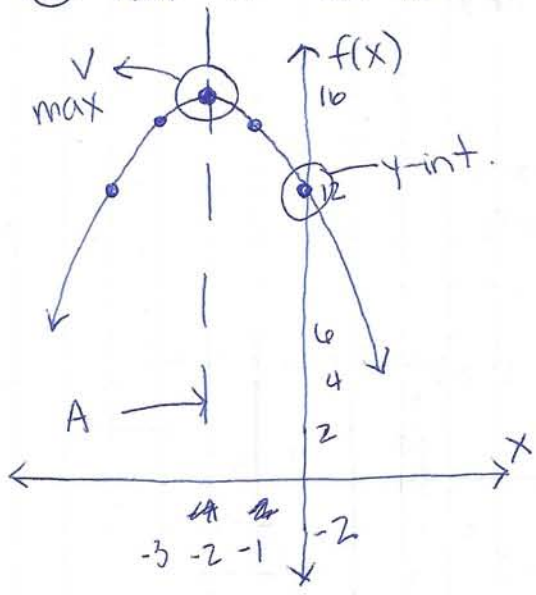


y-intercept  $y = 15$

③  $f(x) = 2x^2 - 2x + 1$

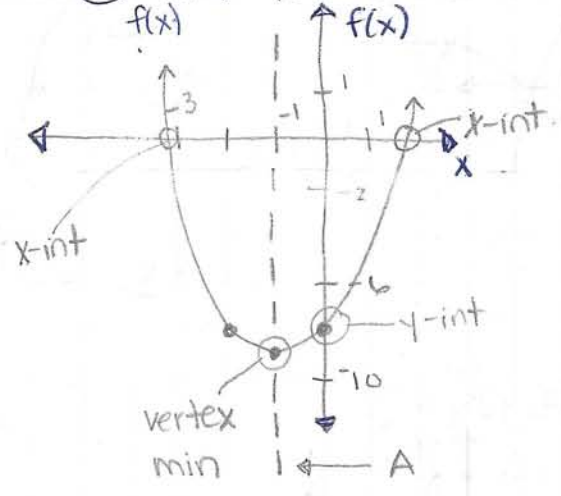


②  $f(x) = -x^2 - 4x + 12$

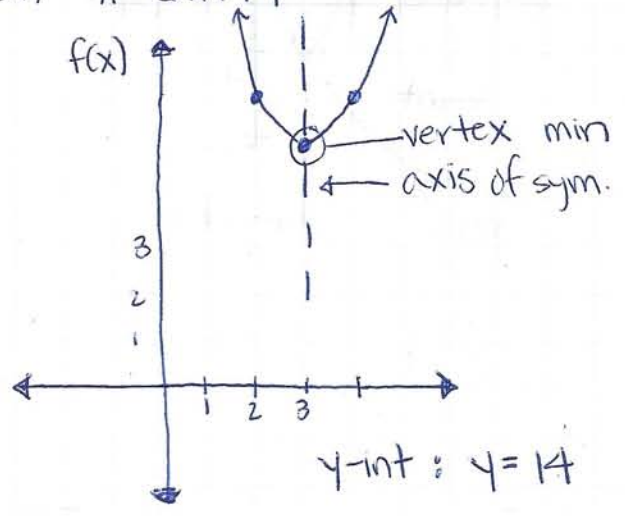


x-intercepts unknown

④  $f(x) = x^2 + 2x - 8$



⑤  $f(x) = x^2 - 6x + 14$



⑥  $f(x) = -x^2 + 14x - 57$  y-int:  $y = -57$

