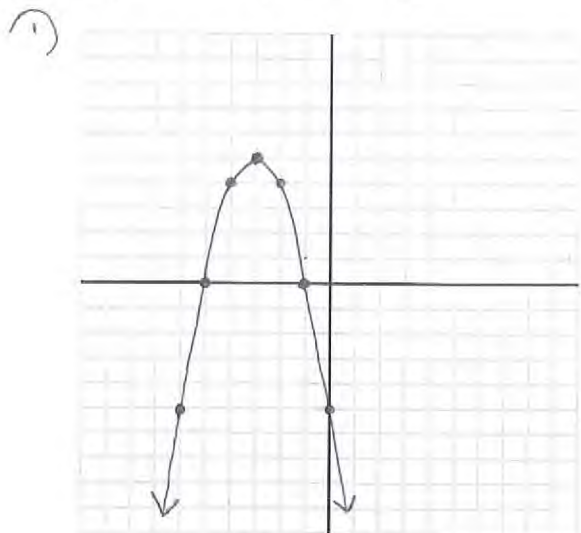
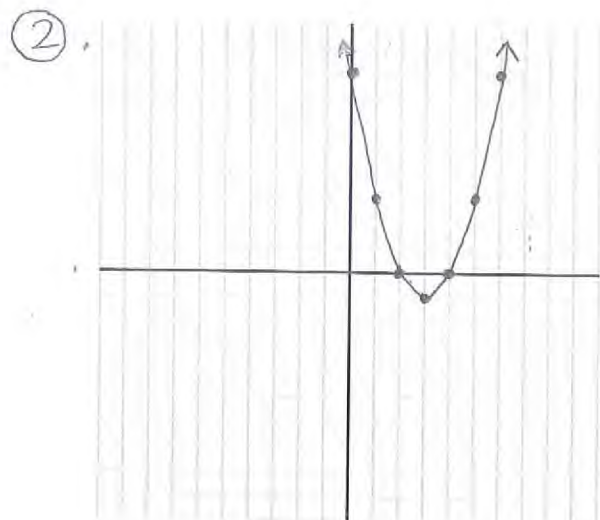


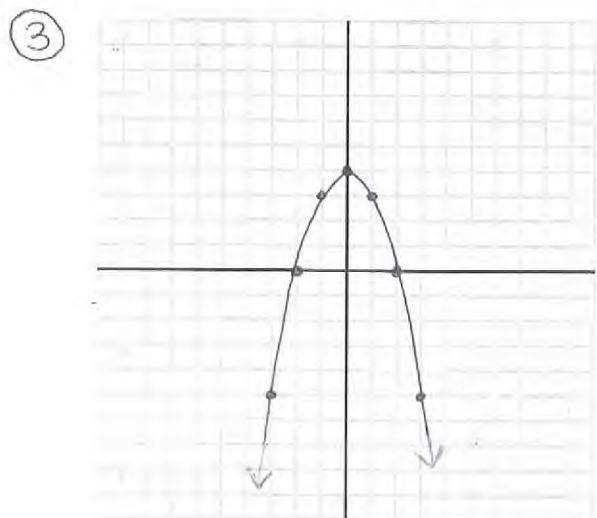
# Identifying Characteristics by Graphing



- a) Vertex: \_\_\_\_\_
- b) x-int: \_\_\_\_\_
- c) extrema: \_\_\_\_\_
- d) Int of Inc: \_\_\_\_\_  
Int of Dec: \_\_\_\_\_
- e) y-int: \_\_\_\_\_
- f) Zeros: \_\_\_\_\_
- g) AOS: \_\_\_\_\_
- h) ROC;  $-3 \leq x \leq -1$ : \_\_\_\_\_
- i) End Behavior:  
as  $x \rightarrow -\infty$ ,  $y \rightarrow$  \_\_\_\_\_  
as  $x \rightarrow \infty$ ,  $y \rightarrow$  \_\_\_\_\_



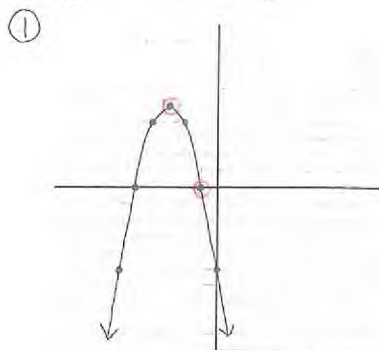
- a) End Behavior:  
as  $x \rightarrow -\infty$ ,  $y \rightarrow$  \_\_\_\_\_  
as  $x \rightarrow \infty$ ,  $y \rightarrow$  \_\_\_\_\_
- b) Zeros: \_\_\_\_\_
- c) vertex: \_\_\_\_\_
- d) y-int: \_\_\_\_\_
- e) AOS: \_\_\_\_\_
- f) ROC;  $4 \leq x \leq 5$ : \_\_\_\_\_
- g) x-int: \_\_\_\_\_
- h) extrema: \_\_\_\_\_
- i) Int of Inc: \_\_\_\_\_  
Int of Dec: \_\_\_\_\_



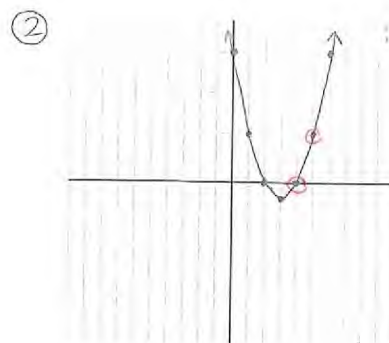
- a) vertex: \_\_\_\_\_
- b) Int of Dec: \_\_\_\_\_  
Int of Inc: \_\_\_\_\_
- c) extrema: \_\_\_\_\_
- d) ROC;  $-2 \leq x \leq 0$ : \_\_\_\_\_
- e) zeros: \_\_\_\_\_
- f) End Behavior:  
as  $x \rightarrow -\infty$ ,  $y \rightarrow$  \_\_\_\_\_  
as  $x \rightarrow \infty$ ,  $y \rightarrow$  \_\_\_\_\_
- g) AOS: \_\_\_\_\_
- h) x-int: \_\_\_\_\_
- i) y-int: \_\_\_\_\_

# Identifying Characteristics by Graphing

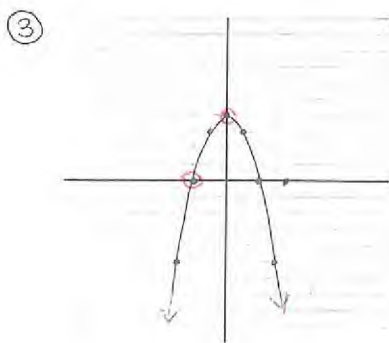
#8



- a) vertex:  $(-3, 5)$
- b) x-int:  $(-1, 0) + (-5, 0)$
- c) extrema: max at 5
- d) Int of Inc:  $x \leq -3$
- Int of Dec:  $x > -3$
- e) y-int:  $(0, -5)$
- f) Zeros:  $-1, -5$
- g) AOS:  $x = -3$
- h) ROC;  $-3 \leq x \leq -1$ :  $\frac{-5}{2}$
- i) End Behavior:  
 as  $x \rightarrow -\infty, y \rightarrow -\infty$   
 as  $x \rightarrow \infty, y \rightarrow -\infty$



- a) End Behavior:  
 as  $x \rightarrow -\infty, y \rightarrow \infty$   
 as  $x \rightarrow \infty, y \rightarrow \infty$
- b) Zeros:  $2, 4$
- c) vertex:  $(3, -1)$
- d) y-int:  $(0, 8)$
- e) AOS:  $x = 3$
- f) ROC;  $4 \leq x \leq 5$ :  $\frac{3}{1} = 3$
- g) x-int:  $(2, 0), (4, 0)$
- h) extrema: min at -1
- i) Int of Inc:  $x \geq 3$   
 Int of Dec:  $x < 3$



- a) vertex:  $(0, 4)$
- b) Int of Dec:  $x > 0$   
 Int of Inc:  $x \leq 0$
- c) extrema: max at 4
- d) ROC;  $-2 \leq x \leq 0$ :  $\frac{4}{2} = 2$
- e) zeros:  $-2, 2$
- f) End Behavior:  
 as  $x \rightarrow -\infty, y \rightarrow -\infty$   
 as  $x \rightarrow \infty, y \rightarrow -\infty$
- g) AOS:  $x = 0$
- h) x-int:  $(-2, 0), (2, 0)$
- i) y-int:  $(0, 4)$