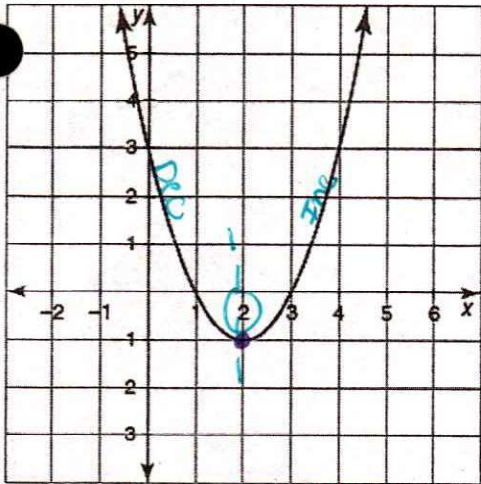


Practice: Describe the characteristics of the following graphs:



$-\infty < x < \infty$

$-\infty < y < \infty$

Domain: $(-\infty, \infty)$

Vertex: $(2, -1)$

Y-Intercept: _____

Extrema: min

Int of Inc: $(2, \infty)$

Positive: _____

End Behavior: As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____. As $x \rightarrow \infty$, $f(x) \rightarrow$ _____

Range: $(-1, \infty)$ or $y \geq -1$

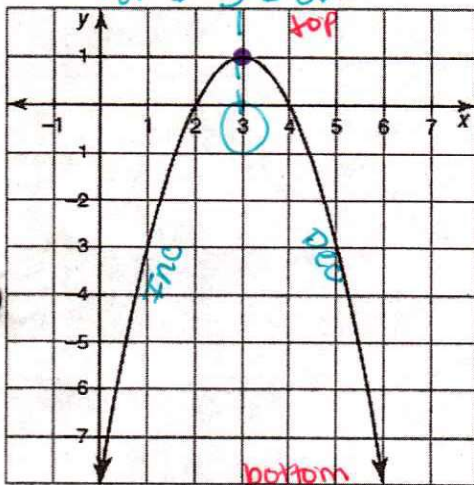
Axis of Sym. $x = 2$

Zeroes: _____

Max/Min Value: $y = -1$

Int of Dec: $(-\infty, 2)$

Negative: _____



Domain: $(-\infty, \infty)$

Vertex: $(3, 1)$

Y-Intercept: _____

Extrema: max

Int of Inc: $(-\infty, 3)$

Positive: _____

End Behavior: As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____. As $x \rightarrow \infty$, $f(x) \rightarrow$ _____

Range: $(-\infty, 1)$ or $y \leq 1$

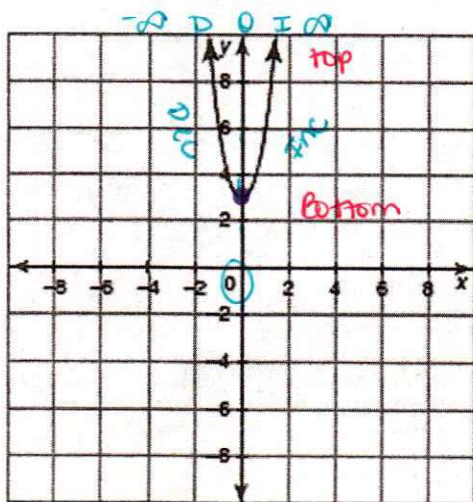
Axis of Sym. $x = 3$

Zeroes: _____

Max/Min Value: $y = 1$

Int of Dec: $(3, \infty)$

Negative: _____



Domain: $(-\infty, \infty)$

Vertex: $(0, 3)$

Y-Intercept: _____

Extrema: min

Int of Inc: $(0, \infty)$

Positive: _____

End Behavior: As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____. As $x \rightarrow \infty$, $f(x) \rightarrow$ _____

Range: $(3, \infty)$ or $y \geq 3$

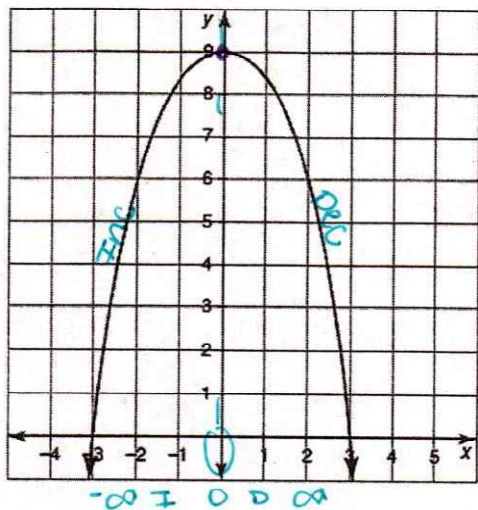
Axis of Sym. $x = 0$

Zeroes: _____

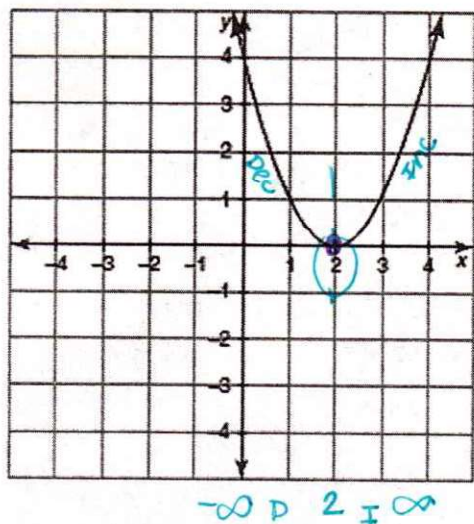
Max/Min Value: $y = 3$

Int of Dec: $(-\infty, 0)$

Negative: _____



Domain: $(-\infty, \infty)$ Range: $(-\infty, 9)$
 Vertex: $(0, 9)$ Axis of Sym: $x=0$
 Y-Intercept: _____ Zeros: _____
 Extrema: max Max/Min Value: $y=9$
 Int of Inc: $(-\infty, 0)$ Int of Dec: $(0, \infty)$
 Positive: _____ Negative: _____
 End Behavior: As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____ . As $x \rightarrow \infty$, $f(x) \rightarrow$ _____



Domain: $(-\infty, \infty)$ Range: $(0, \infty)$
 Vertex: $(2, 0)$ Axis of Sym: $x=2$
 Y-Intercept: _____ Zeros: _____
 Extrema: min Max/Min Value: $y=0$
 Int of Inc: $(2, \infty)$ Int of Dec: $(-\infty, 2)$
 Positive: _____ Negative: _____
 End Behavior: As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____ . As $x \rightarrow \infty$, $f(x) \rightarrow$ _____