

Day 10 – Average Rate of Change

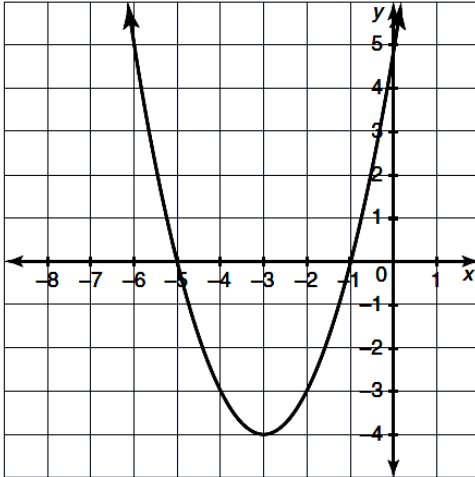
Name: _____

Practice Assignment

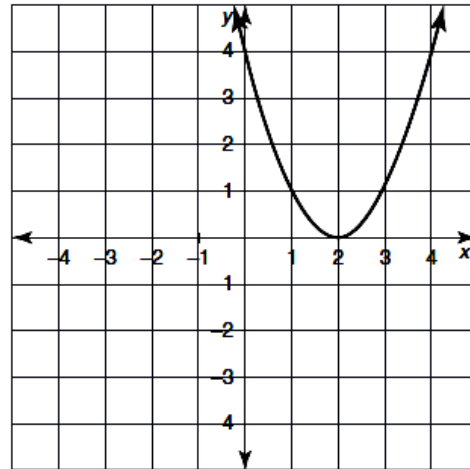
Date: _____ Block: _____

Find the average rate of change for the given intervals:

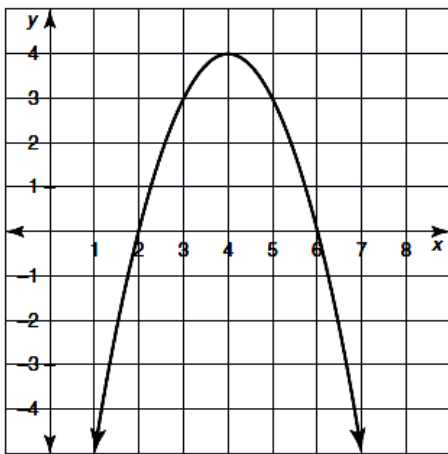
1. $-3 \leq x \leq 0$



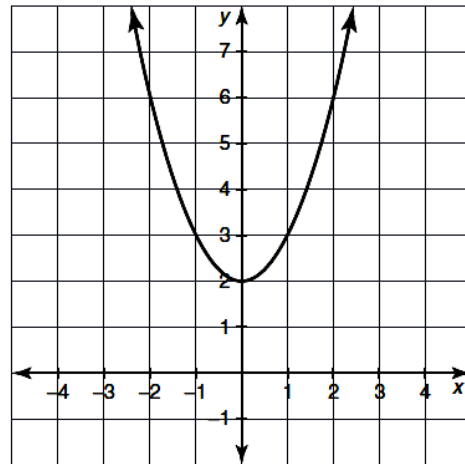
2. $0 \leq x \leq 2$



3. $4 \leq x \leq 7$



4. $1 \leq x \leq 2$



Find the average rate of change for the given equations on the given intervals:

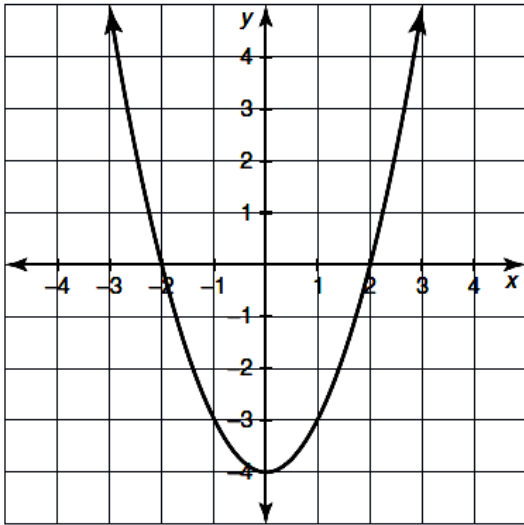
5. $y = x^2 - 4x + 6$; $2 \leq x \leq 4$

6. $y = x^2 - 4x + 1$; $-1 \leq x \leq 2$

7. $y = -x^2 - 6x - 10$; $-7 \leq x \leq -3$

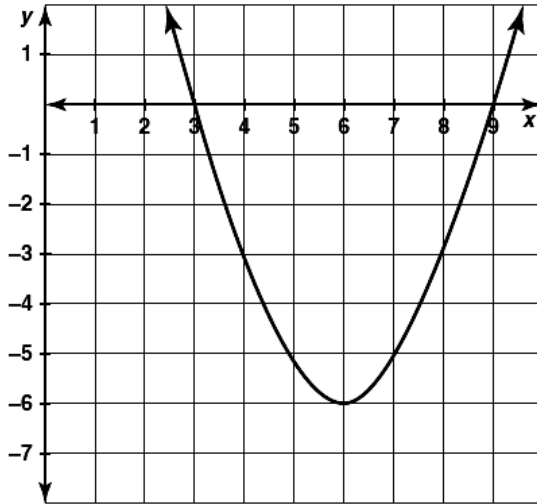
More Practice with Characteristics: Name the characteristics for each graph given

8.



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

9.



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

10. Describe the transformations from the parent function $y = x^2$ to the second graph. Then write the equation of the transformed graph.

