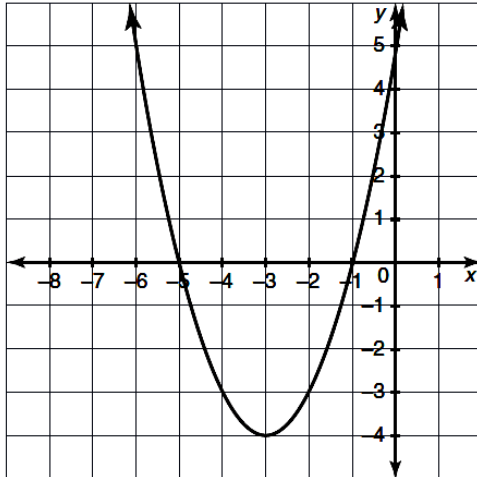


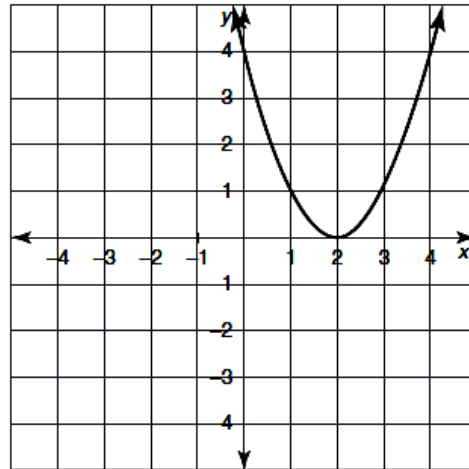
Practice Assignment

Find the average rate of change for the given intervals:

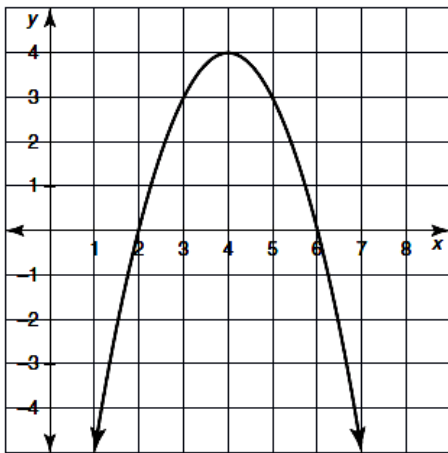
1. $-3 \leq x \leq 0$



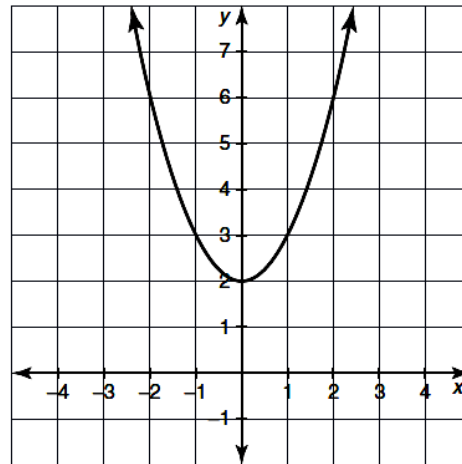
2. $0 \leq x \leq 2$



3. $4 \leq x \leq 7$



4. $1 \leq x \leq 2$



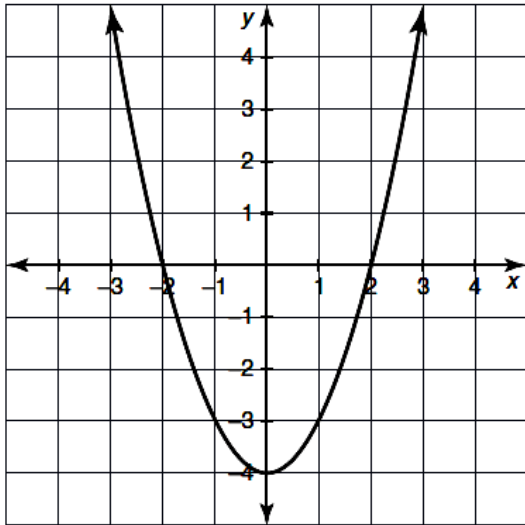
Find the average rate of change for the given equations on the given intervals:

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

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

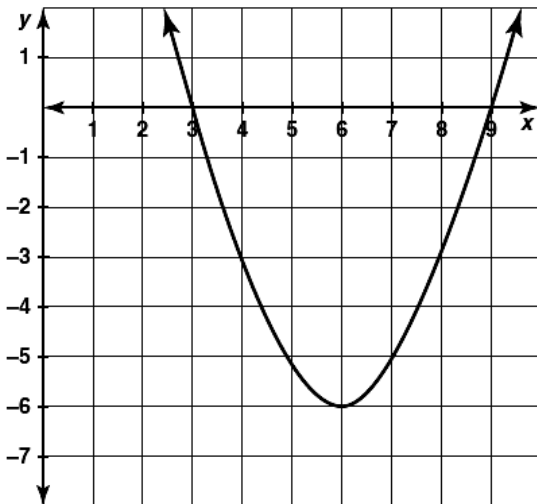
7. $y = -x^2 - 6x - 10$; $-7 \leq x \leq -3$

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.

