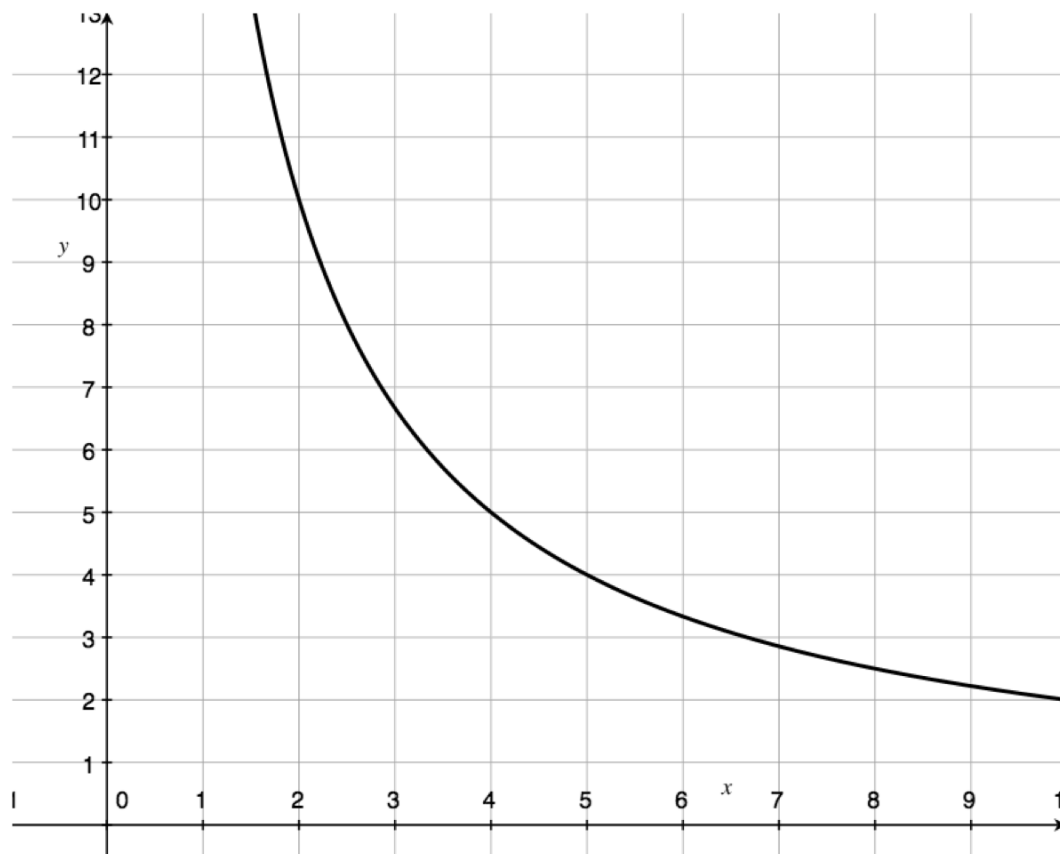


Precalc – Warm Up – 1/31/11

Name: _____

Period: _____

- 1) Find the average rate of change of the following function from $x=2$ to $x=4$



Precalc – Bolt Strikes Again? – 1/31/11

Name: _____

Period: _____

Students will be able to estimate velocity for an instant in time.
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Now that we have established the interval in which Mr. Bolt runs with the greatest velocity you have new challenge:

What is Bolt's velocity at exactly 8 seconds?

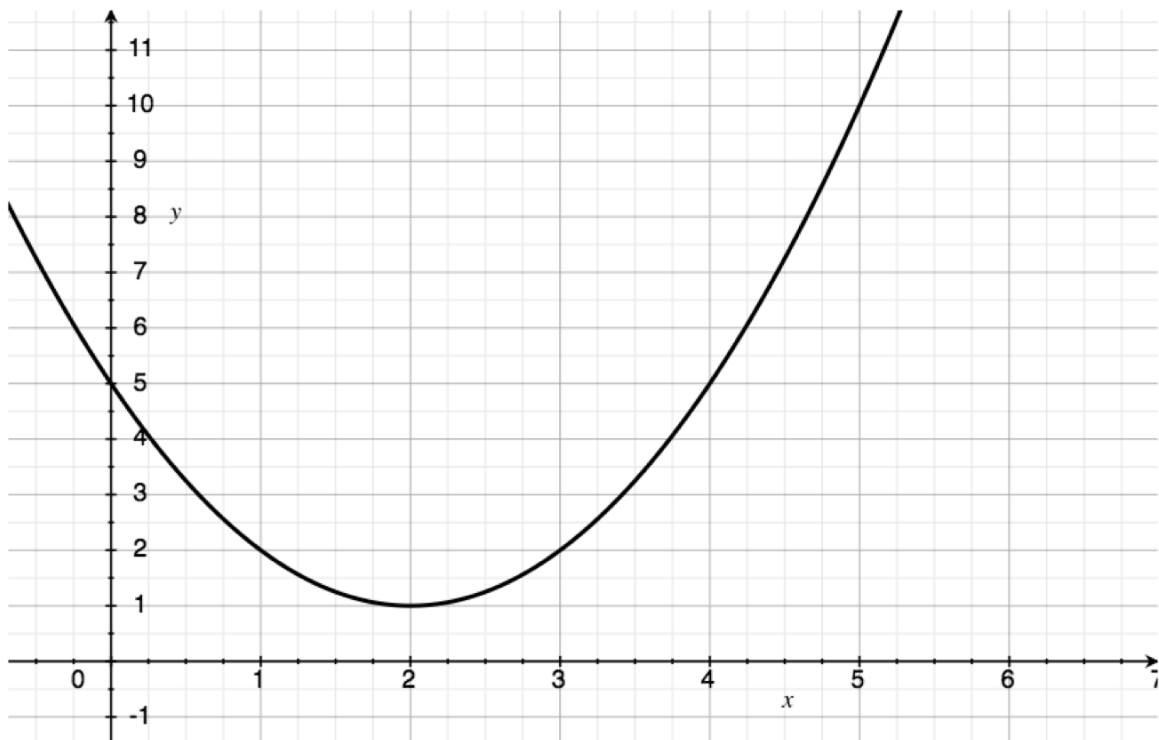
Strategy: _____

Execution:

Evaluation: What did you learn? Did you get stuck? What else might you need to know? What else are you interested in learning?

Precalc – Instantaneous vs. Average Rate of Change – 1/31/11

Let's take a look at what this means on a graph!



Imagine that the following table represents Bolt's time and distance.

Distance (meters)	0	4	15	36	64	100
Time (Seconds)	0	2	4	6	8	10

Precalc – Exit Slip – 1/31/11

Name: _____

Period: _____

A car drives away from a stop sign and you record its distance from the stop sign in the following table.

Distance (in meters)	0	80	130	190	340	440
Time (in seconds)	0	10	15	20	30	35

1) Find the average velocity of the car from $t=0$ to $t=15$. (you may leave you answer as a fraction if it does not divide evenly) Be sure to include proper units.

2) Estimate the instantaneous velocity of the car at $t=15$. Be sure to include proper units.