

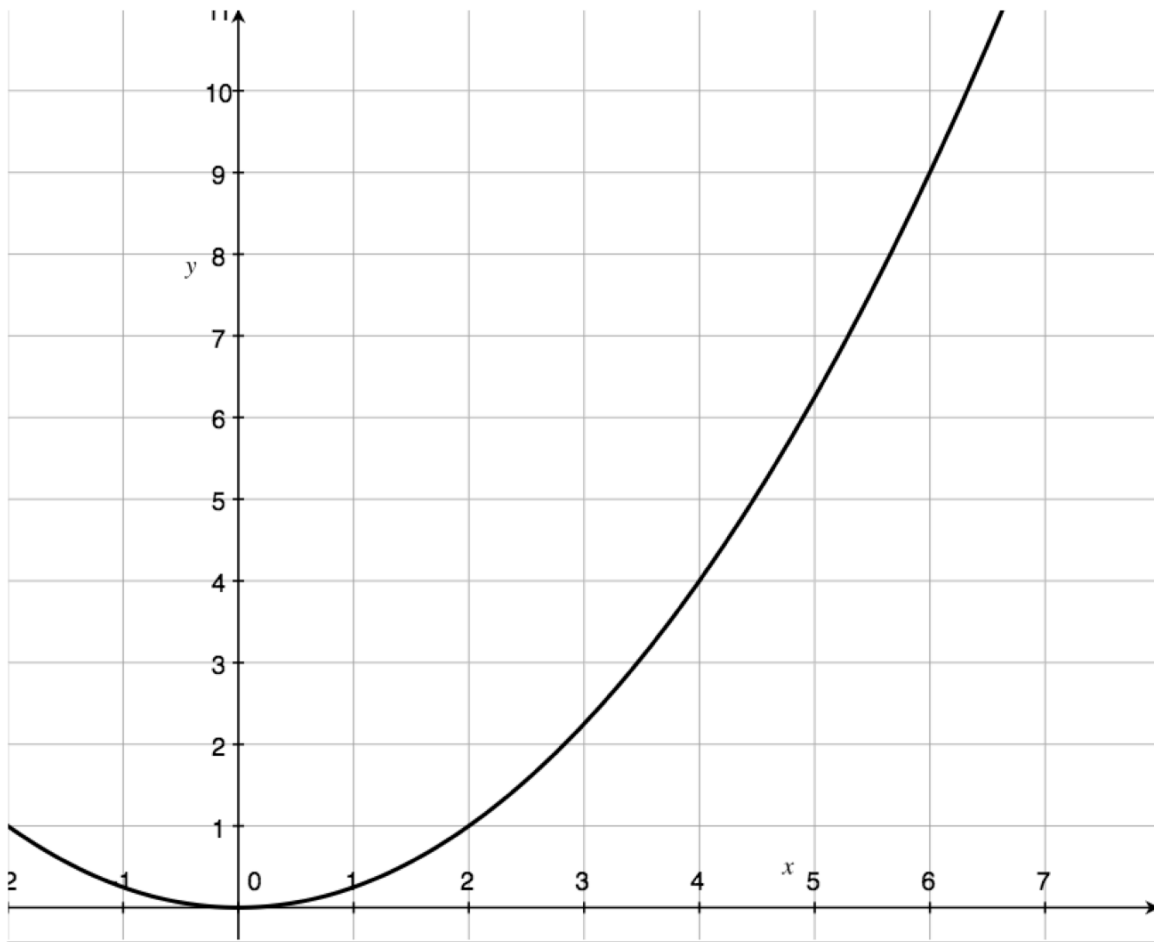
# Precalc – Warm Up – 1/25/11

Name: \_\_\_\_\_

Period: \_\_\_\_\_

1) If a senior earns 20 citizenship points in 4 days, how many citizenship points does he earn per day?

2) What is the average rate of change of the following function from  $x=2$  to  $x=6$ ?



# Precalc – How Fast is the Fastest Human Being? – 1/25/11

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Students will be able to develop a strategy for solving an unknown problem in the context of velocity.

First, answer the following questions.

How fast do you think that the fastest human being can run?

Who might be the fastest runner in the world? Would that person run a long distance or a short distance?

We want to use the video you have just seen in order to figure out how fast the fastest human being runs. You are going to develop a method using the following format:

- 1) Strategy - First, you will think about what you are going to do and try to express what you will do without actually doing it.
- 2) Execute - Next, you'll actually try your strategy and see what happens.
- 3) Evaluate - Look back at what happened and decide if you were successful or not and if you need to change anything.
- 4) Communicate - Tell us what you did (in writing and/or verbally) so that we can learn from your experience or help you.

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?

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

## Problem #2

Do you think that Mr. Bolt runs faster in the 100 meters or 200 meters?

Remember our method:

1) Strategy, 2) Execute, 3) Evaluate, 4) Communicate

Strategy:\_\_\_\_\_

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Execution:

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

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Do you think that Mr. Bolt traveled the same velocity the entire time that he ran?

Predict how Mr. Bolt's velocity may have changed while he ran the 100 meters?

# Precalc – Exit Slip – 1/25/11

Name: \_\_\_\_\_

Period: \_\_\_\_\_

- 1) Consider the following problem and answer it on the front and back of this page:

Ms. Hanna and Ms. Heneigg have a running race. Their times and distances are represented in the table below. Who ran faster?

|         | 0 meters  | 50 meters  | 100 meters |
|---------|-----------|------------|------------|
| Hanna   | 0 seconds | 10 seconds | 20 seconds |
| Heinegg | 0 seconds | 20 seconds | 25 seconds |

Strategy: \_\_\_\_\_

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Execution:

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

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