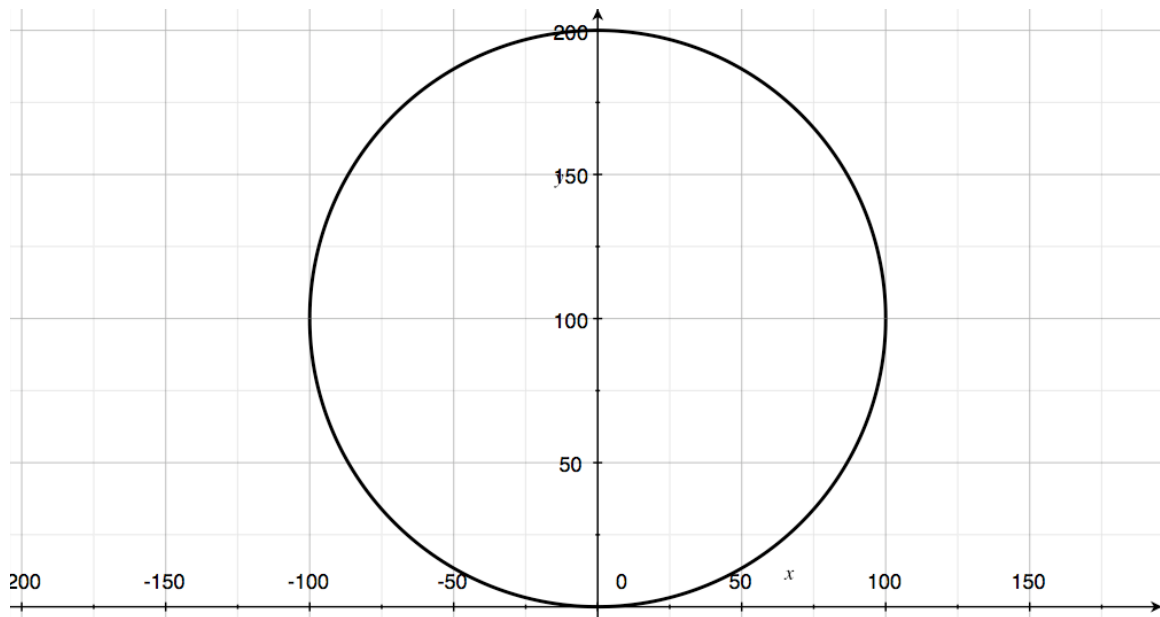


Precalc – Warm Up – 12/2/10

Name: _____

Period: _____

- 1) The following graph represents the path you take riding a Ferris wheel. If it takes 24 minutes to make one revolution then mark where you are at 12 minutes, 6 minutes and 3 minutes.



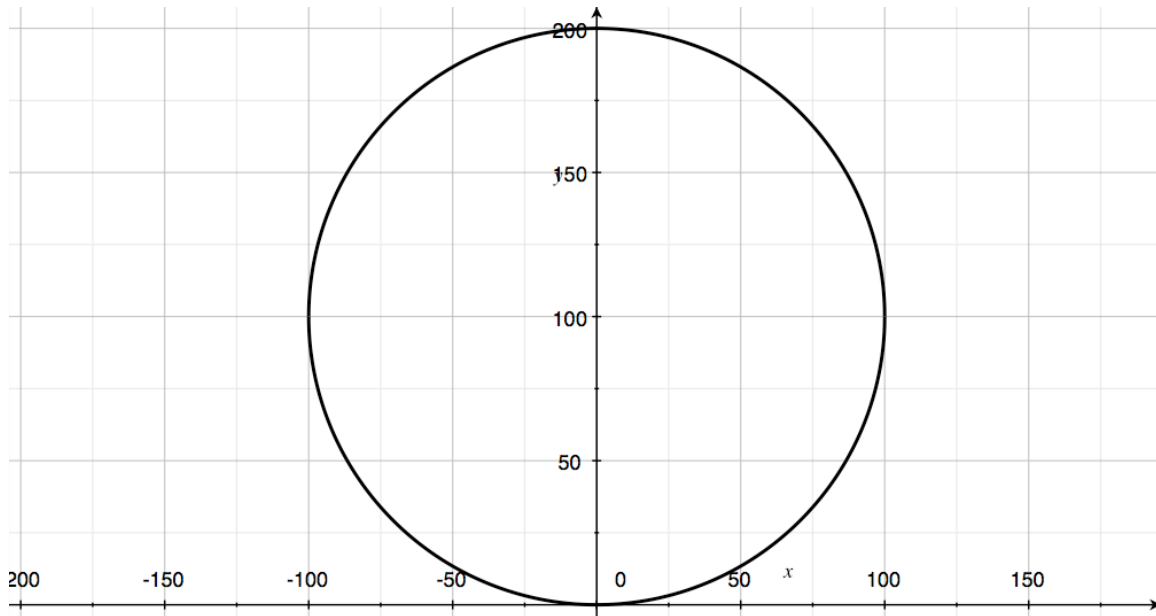
Precalc – Ferris Wheel Part II – 12/2/10

Name: _____

Period: _____

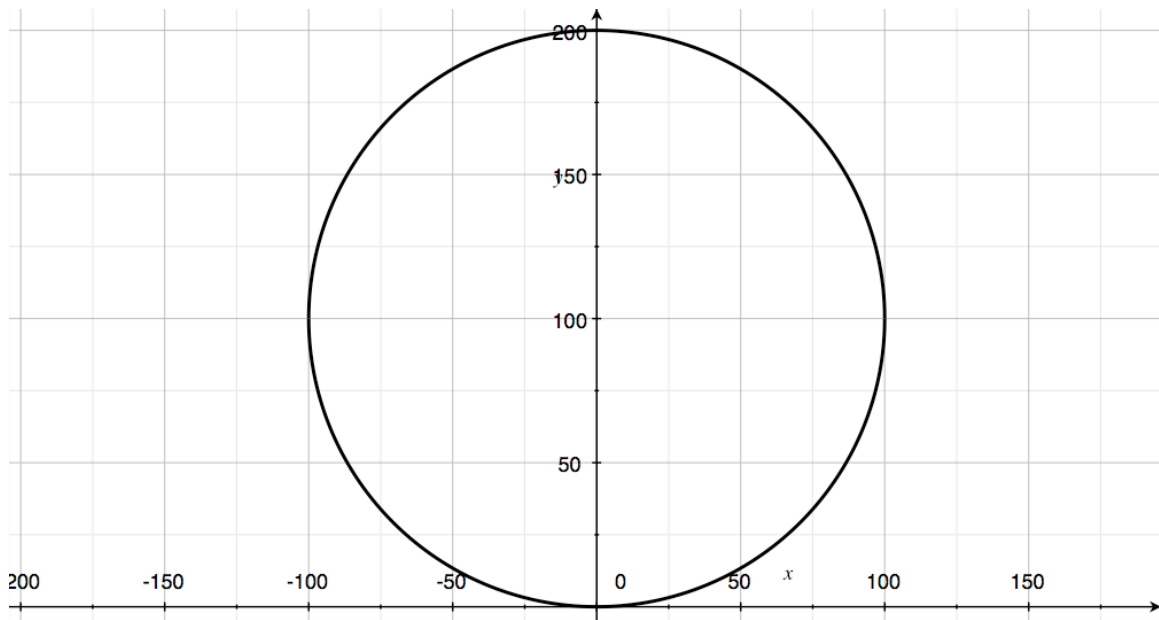
Students will be able use trigonometry in order to analyze a real world situation.

You and a friend want to ride a Ferris wheel that has a radius of 100 meters. You can measure your height but you want to know how much time has passed since the beginning of your ride. You know that one full revolution takes 12 minutes. You can use the following diagram to help you answer the following questions.



If you are at 200 meters high, how much time has passed since the beginning of your ride?

If your height is 100 meters, how much time has passed since the beginning of your ride?

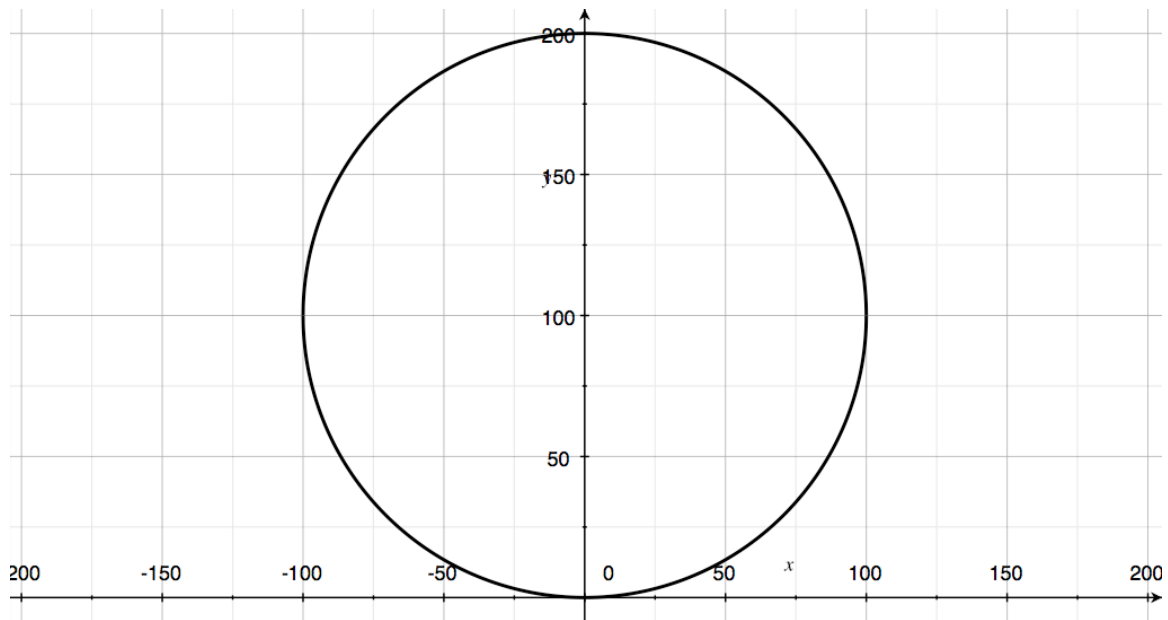


If your height is 50 meters then how much time has passed since the beginning of your ride?

If your height is 150 meters then how much time has passed since the beginning of your ride?

Watch Mr. Monte-Sano model the following question:

If your height is 29.3 meters then how much time has passed since the beginning of your ride?

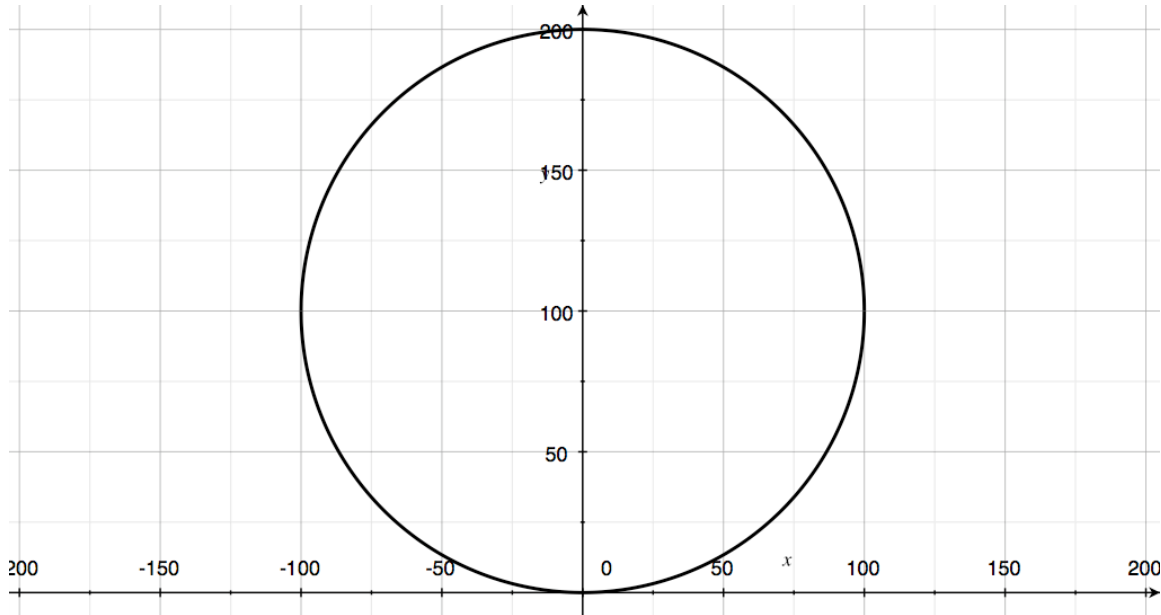


If your height is 186.6 meters then how much time has passed since the beginning of your ride?

Precalc – Exit Slip – 12/2/10

Name: _____

Period: _____



- 1) Use the same Ferris wheel scenario to answer the following question: If you get on the wheel at minute 0 how high are you after 9 minutes?

How high are you after 10 minutes?