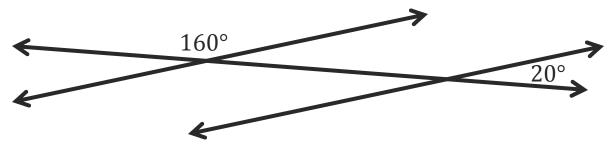
Friday, February 1, 2013

Agenda:

- TISK & 2 MM
- Lesson 9-1
- Homework: 9-1 problems in Ch 9 HW Packet #1

TISK Problems

- 1) Draw a sketch of the graph of the function $f(x) = x^2$.
- 2) Find the midpoint, *M*, between the points A(5,7) and B(9,11).
- 3) Determine if you can prove lines *a* and *b* parallel. If so, state a postulate or theorem that supports your answer.



- Definitions
 - o Circle
 - o Center
 - o Radius
 - Congruent
 Circles
 - o Diameter
 - Chord

It follows from the definition of a circle that all radii in a circle are congruent.

mendpoint on the circle.

The size of a bicycle is determined by the diameter of the wheel. So a 26-inch bicycle has a wheel with 26-inch diameter. What is the length of a spoke of a 26-inch bicycle?



A diameter is twice the length of a radius.

26 in = 2r

13 in = r

- Circumference
 - The distance around a circle is called the **circumference.**
- Circumference of a Circle
 - If a circle has a circumference of C units and a radius of r units, then $C = 2\pi r$.

If the radius of a bicycle wheel is 17 inches, and the wheel turned 10,500 revolutions, how far did the bicycle travel?

1 revolution = 1 circumference of the circle

 $C = 2\pi r$ $C = 2\pi 17$ $C = 34\pi$ in

10,500 revolutions = ? inches

1 circumference ? inches

1 revolution _ 10,500 revolutions

? in

 34π in

The bicycle traveled approximately 1,121,548.6 inches.

