Warm-Up 2/6/17 (Calc. Inactive)

1) Solve.

$$-3(x - 6) + 4(x + 1) = 7x - 10$$

- 2) Classify the following as rational or irrational.
- a) 3/4
- b) 0.143544362....
- c) 2.34343434...
- d) $\sqrt{64}$
- e) √86
- f) -4
- 3) Simplify.
- $(5 \times 10^{7})(2.5 \times 10^{-2})$

1)
$$-3(x-6)+4(x+1)=7x-10$$

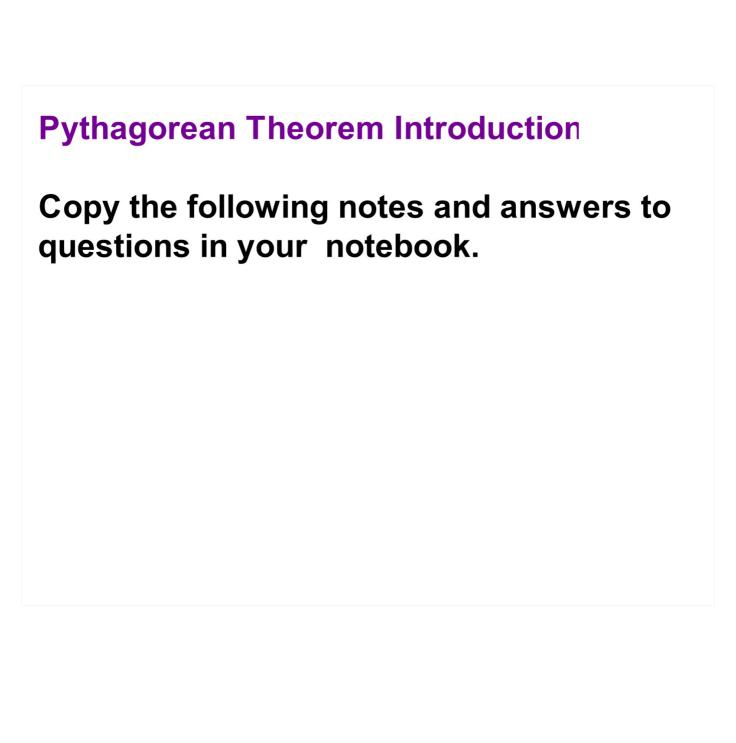
 $-3x+18+4x+4=7x-10$
 $x+22=7x-10$
 $22=6x-10$
 $32=6x$
 $\frac{32}{5}=x$
 $\frac{16}{3}=x$

3)
$$(5 \times 10^{7})(2.5 \times 10^{-2})$$

 $(5.2.5) \times (10^{7} \cdot 10^{-2})$
 12.5×10^{5}
 1.25×10^{6}

- 2 a) Rational
 - b) Irrational
 - c) Rational
 - d) Rational
 - () Irrational
 - f) Rational

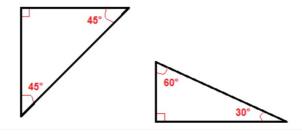
~Group Discussion: A triangle is a figure with only three sides. These sides form three angles. Try to draw as many different 3 sided figures as you can, and under each, write a short description of the figure.



Acute Triangle: is a **triangle** with all three angles **acute** (less than 90°)

Obtuse Triangle: is one with one obtuse angle (greater than 90°) and two **acute** angles

Right Triangle: a triangle with a right angle.



Triangle's angles must sum to 180°, no **triangle** can have more than one obtuse angle.

Read: What's Your Angle Pythagoras?

http://pythagorasreads.wikispaces.com/What%27s+Your+Angle,+Pythagoras%3F

While you listen, answer the questions.

pythagorean Theorem

Complete the following questions as your teacher reads What's Your Angle, Pythagoras? by Julie Ellis.

•	Pythagoras' father transported to Crete.
•	Nef, the builder, showed Pythagoras a rope in which he had made a triangle. He called the triangle a triangle because it helped him make a square corner which was exactly the right angle for cutting stone.
•	Pythagoras found a rope and tied knots in it and pulled the rope into different triangles until he made a triangle that seemed right. It had lengths on one side, lengths on another side, and lengths on the longest side.
•	Pythagoras got in trouble when he used the tiles to make squares along each side of a statue base. It took tiles to make a square along the side that was 3 tiles long, tiles to make a square along the side that was 4 tiles long, and tiles to make a square along the side that was 5 tiles long.
•	Pythagoras used his right triangle pattern(Pythagorean Theorem) to figure ou the distance from his house to Crete.
la a	annea halous draw a diagram deniating the way you think Dythogorea placed the tiles

In the space below, draw a diagram depicting the way you think Pythagoras placed the tiles around the statue base as described in the story.

http://digitalcommons.brockport.edu/cgi/viewcontent.cgi?article=1186&context=ehd_theses

