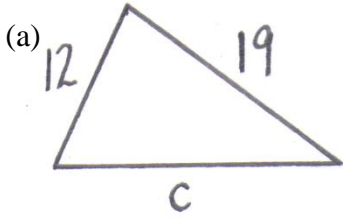
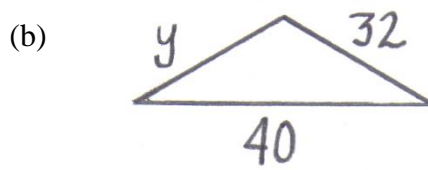


Math 2 Chapter 2 Practice Quiz #4

1. Use the Triangle Inequality Theorem to find the possible lengths of the third side of the triangle.

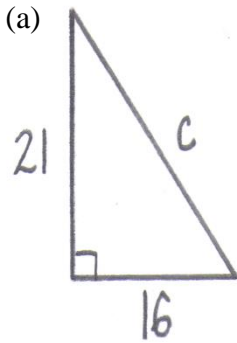


_____ < c < _____

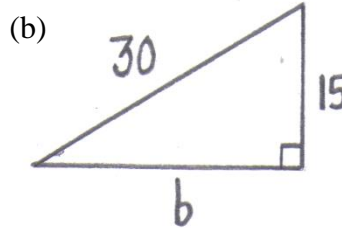


_____ < y < _____

2. Find the length of third side of the triangle. Round to the nearest tenth, if necessary.

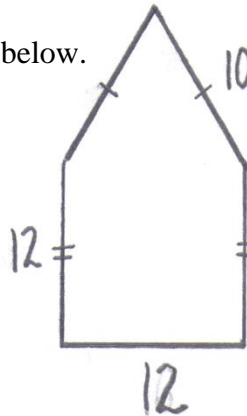


c = _____



b = _____

3. Find the perimeter and area of the figure below.



Perimeter = _____

Area = _____

4. Use the arrow diagram to write a conditional statement (If..., then...). Then write the converse of the conditional statement. Assuming the conditional statement is true tell whether the converse is also true.

(a) A triangle has two congruent sides → triangle is isosceles

Conditional: _____

Converse: _____

TRUE or NOT ALWAYS TRUE

Raining after school → I will give you a ride home

(b)

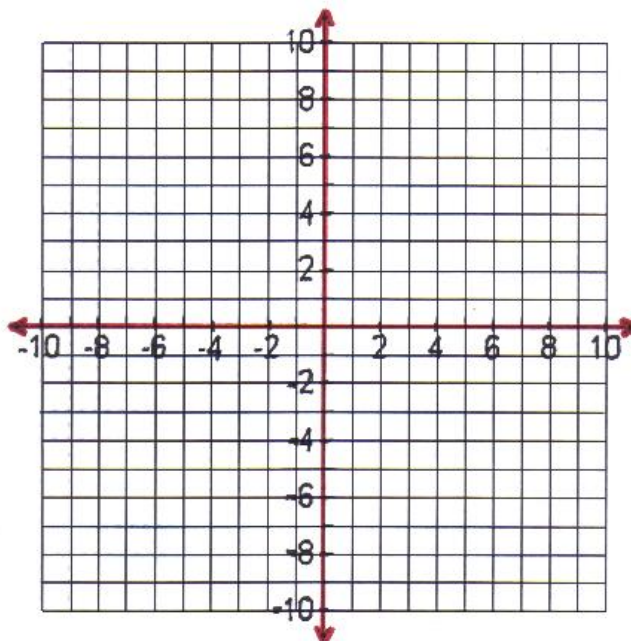
Conditional: _____

Converse: _____

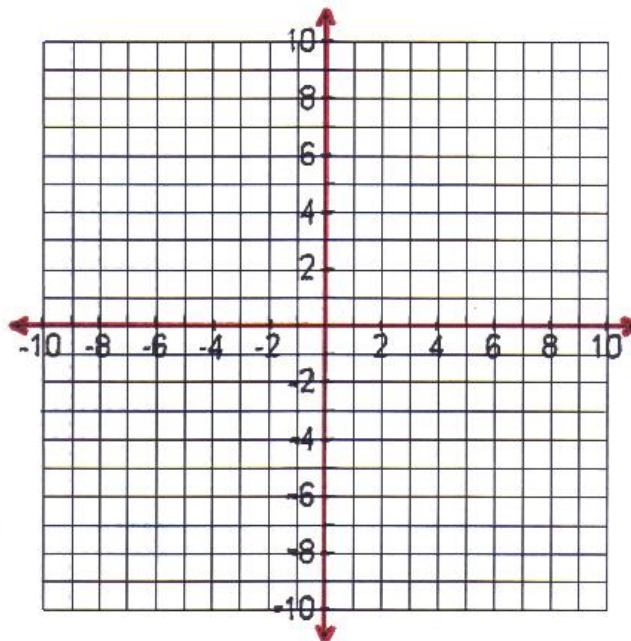
TRUE or NOT ALWAYS TRUE

5. Graph the equations.

(a) $y = \frac{3}{7}x - 5$



(b) $y = -\frac{2}{3}x + 7$



6. What is the slope of a line that is parallel to each line above? Perpendicular?

(a) $y = \frac{3}{7}x - 5$

(b) $y = -\frac{2}{3}x + 7$

Slope of line parallel _____

Slope of line perpendicular _____

Slope of line parallel _____

Slope of line perpendicular _____