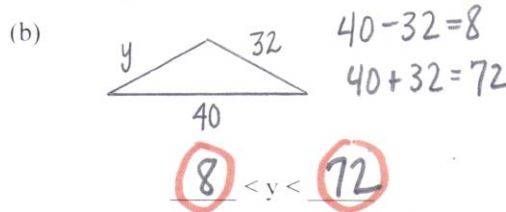
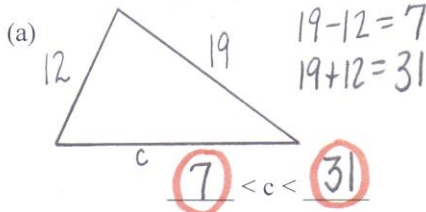


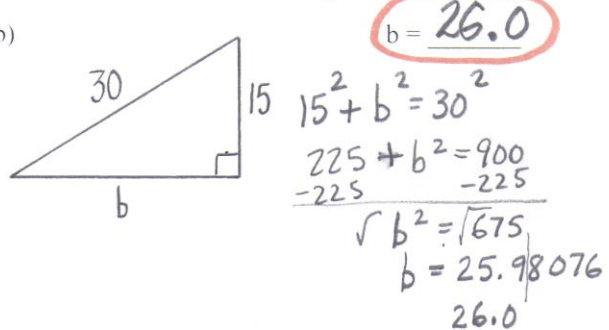
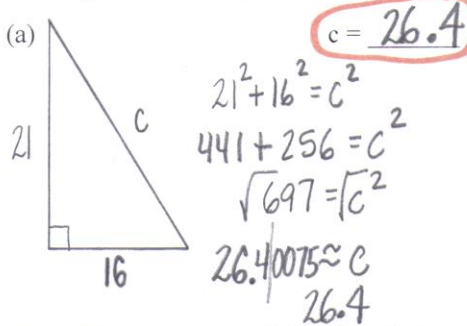
Math 2 Chapter 2 Practice Quiz #4

Answer Key 28

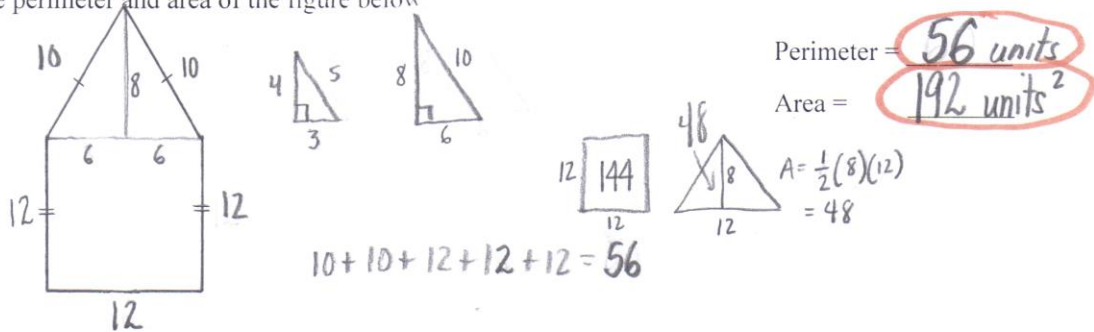
1. Use the Triangle Inequality Theorem to find the possible lengths of the third side of the triangle.



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



3. Find the perimeter and area of the figure below



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 \rightarrow triangle is isosceles

Conditional: If a Δ has 2 \cong sides, then it is isosceles.

Converse: If a Δ is isosceles, then it has 2 \cong sides.

TRUE or NOT ALWAYS TRUE

Raining after school \rightarrow I will give you a ride home

(b)

Conditional: If it is raining after school, then I will give you a ride home.

Converse: If I give you a ride home, then it is raining after school.

TRUE or **NOT ALWAYS TRUE**

can give a ride home even if it isn't raining.

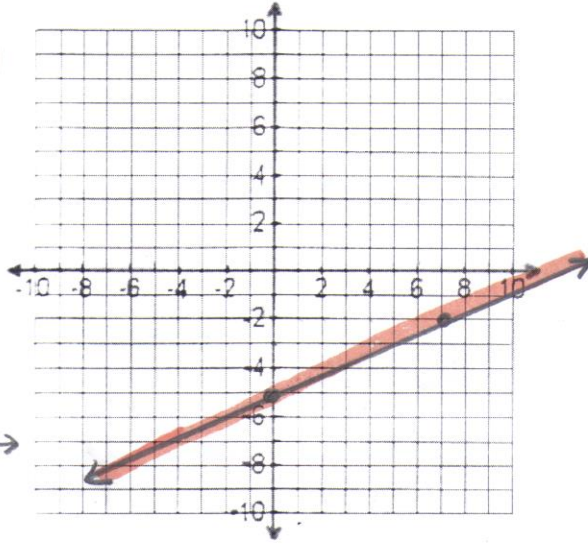
5. Graph the equations.

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

↑ slope ↑ yint

$\frac{3}{7}$ up
7 right
or

① plot yint first
② from there count the slope



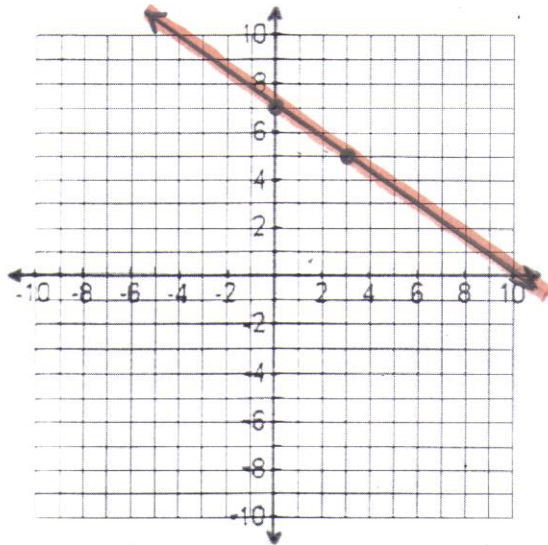
↙ + slope

↘ - slope

↕ x = y =

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

↑ slope ↑ yint



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

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

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

* || lines have the same slope

* ⊥ lines have opposite reciprocal slopes

$m = \frac{3}{7}$ Slope of line parallel $\frac{3}{7}$
Slope of line perpendicular $-\frac{7}{3}$

$m = -\frac{2}{3}$ Slope of line parallel $-\frac{2}{3}$
Slope of line perpendicular $+\frac{3}{2}$