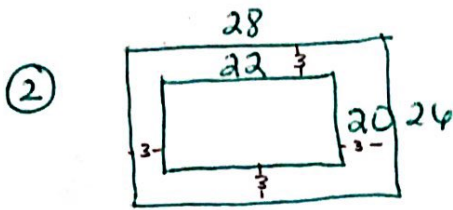
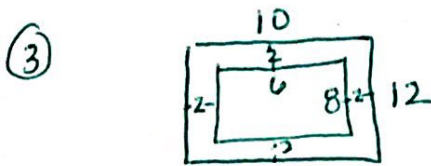


page 1

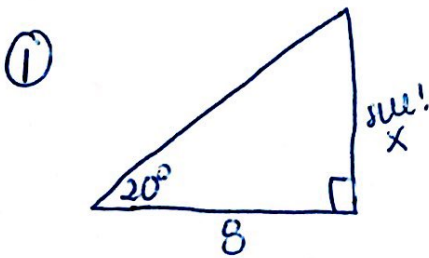
- ① one slice represents one sector of the circle.
you consumed $\frac{1}{10}$ of the pizza



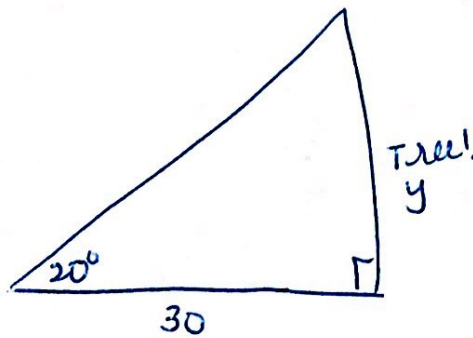
$$a = l \cdot w$$
$$a = 28 \cdot 24$$
$$a = 728 \text{ ft}^2$$



$$a = l \cdot w$$
$$a = 6 \cdot 8$$
$$a = 48 \text{ ft}^2$$



$$\tan 20 = \frac{x}{8}$$
$$x = 2.9$$



$$\tan 20 = \frac{y}{30}$$
$$y = 10.9$$

- (a) the tree is 10.9 ft tall
sue is 2.9 ft tall \rightarrow work!
- (b) the tree is 8 ft taller than sue

② $V = \frac{1}{3} Bh$

$$V = \frac{1}{3} (900 \times 97)$$

(a) $V = 29,100 \text{ ft}^3$

(b) $29,100 (.77)$

$$22,407 \text{ ft}^3$$

Analytic Geometry – Constructed Response

EOC Pullout – Day 3

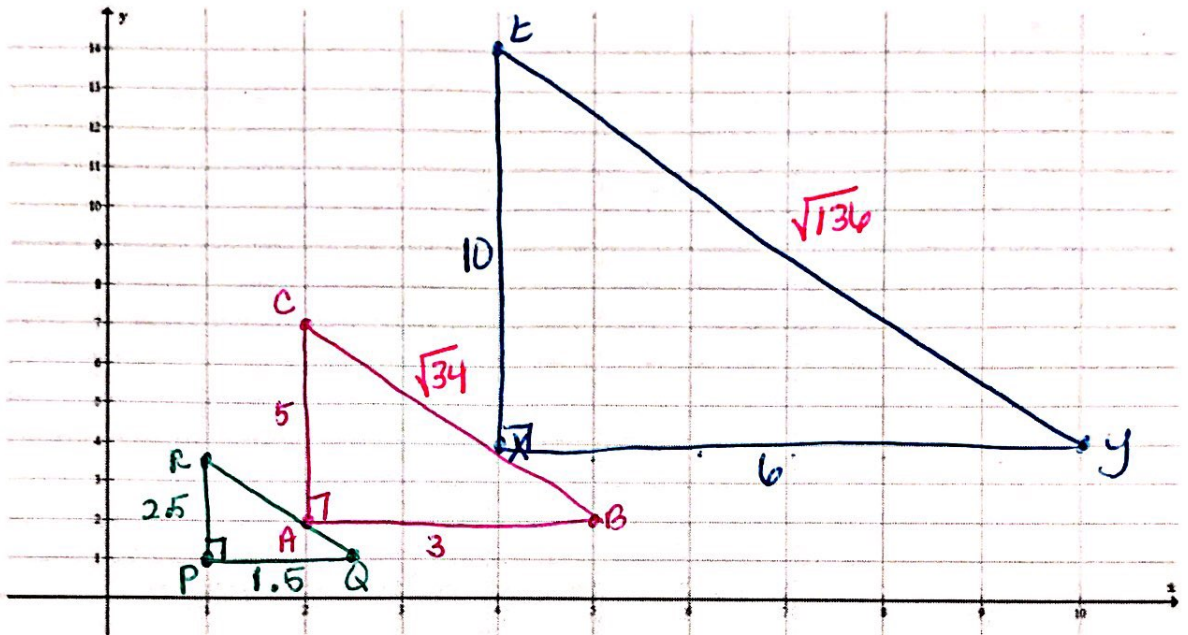
Complete the answers to the given questions on the back of this paper

Plot the following triangles on the graph paper below. Label all vertices.

Triangle ABC: A(2, 2), B(5, 2), and C(2, 7)

Triangle XYZ: X(4, 4), Y(10, 4), and Z(4, 14)

Triangle PQR: P(1, 1), Q(2.5, 1), and R(1, 3.5)



Use your graph as needed to answer the following questions.

(#1) $\frac{AC}{XZ} = \frac{5}{10} = \frac{1}{2}$ $\angle A \cong \angle X$
 $\frac{AB}{XY} = \frac{3}{6} = \frac{1}{2}$ SAS ~

Use your graph as needed to answer the following questions.

- Are Triangle ABC and Triangle XYZ similar? Support your statement with evidence. $\frac{PR}{XZ} = \frac{2.5}{10} = \frac{1}{4}$ $\angle P \cong \angle X$
- Are Triangle XYZ and Triangle PQR similar? Support your statement with evidence. $\frac{PQ}{XY} = \frac{1.5}{6} = \frac{1}{4}$ SAS ~
- Find the sine of $\angle B$ and the sine of $\angle Y$. Write your answers as fractions. What do you notice about the sine values of these two angles? Explain your observation using properties of similarity.
- Find the cosine of $\angle C$. Write your answer as a fraction. Compare the cosine of $\angle C$ to the sine of $\angle B$. Explain the comparison using properties of similarity or definitions/properties of trigonometric ratios.

(#3) $\sin \angle B = \frac{5}{\sqrt{34}} \approx 0.86$

$\sin \angle Y = \frac{10}{\sqrt{136}} \approx 0.86$

B/c sides are proportional,
the ratio of $\frac{\text{opp}}{\text{hyp}}$ will be equal.

(#4) $\cos \angle C = \frac{5}{\sqrt{34}} \approx 0.86$

$\sin \angle B = \frac{5}{\sqrt{34}} \approx 0.86$

in a rt Δ , the sine of one
complementary \angle will equal
the cosine of the other