Flashback #5

Which of the following attains a minimum value at (4,-1)?

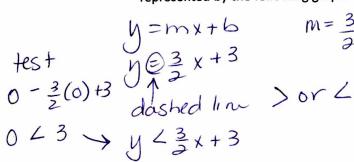
lich of the following a
3x + 2y
3(4)+2(-1)
12 +-2
10

3x + 4y3(4)+4(-1)

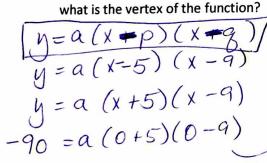
3(4) + 10(-1) 10(4) + 3(-1)

10x + 3y

2. Give the inequality that can be represented by the following graph.



- 3. Given that the zeros of a quadratic function are -5 and 9, and the graph has a y-intercept of -90,



$$\begin{array}{ll}
\text{line of } -5t9 = 2 \\
\text{Symm} & = 2 \\
-90 = a (5)(-9) \\
-90 = a (-45) & = 2 \\
-45 & = 45
\end{array}$$

$$\begin{array}{ll}
\text{The of } -5t9 = 2 \\
0, -90 \\
-90 & = 4 \\
-45 & = 45
\end{array}$$

Vertex (2,-98)

4. Factor
$$20x^2 + 6x - 8$$

remove GCF:
$$\frac{2}{(10x^2+3x-4)}$$
 $\frac{4}{2(5x+4)(2x-1)}$ $\frac{4}{2(2x-1)}$

5. Describe the graph $y = -3(x+5)^2 - 2$

opens
down vertex
Skinny (-5,-2) % line of symmetry is

$$a=3$$
 and $y-int(x=0)$ $-3(5)^2-2=-75-2=-77$
ass of golf balls produced at a factory is 45.6 grams 0.3 grams. The results are $(0,-77)$

6. The average mass of golf balls produced at a factory is 45.6 grams 0.3 grams. The results are accurate 19 out of 20 times. Determine the confidence level, confidence interval and margin of error.

confidence level $\frac{19}{20} \rightarrow 95\%$ confidence interval $45.6 - 0.3 = 45.3g \rightarrow 45.9g$

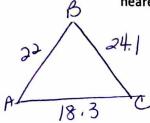
margin of error ±0.3 grams

Riverside Math

Foundations 11

0.295678 ... = cost

7. In triangle ABC, a=24.1cm, b=18.3cm and c=22cm. Determine the largest angle to the nearest tenth of a degree. 60 Find LA



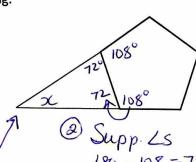
$$a^{2} = b^{2} + c^{2} - 2bc\cos A$$

$$24.1^{2} = 18.3^{2} + 32^{2} - 2(18.3)(32)\cos A$$

$$580.81 - 334.89 - 484 = -805.2\cos A$$

$$-\frac{238.08}{-805.2} = \frac{-805.2\cos A}{-805.2}\cos A$$
ows a regular pentagon and a triangle. The value of x and explain your

The diagram shows a regular pentagon and a triangle. The value of x and explain your reasoning.



$$0 S(n) = 180(n-2)$$

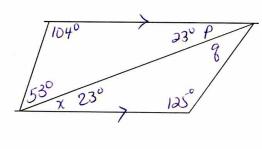
$$S(5) = 180(5-2)$$

$$S(5) = 180(3)$$

$$S(5) = 540^{\circ}$$

Supp Ls
$$180-108=720$$
So earth interior $L = 540 = 108^{\circ}$
for the exterior

9. Determine the missing angles and provide your reasoning.



$$2p = 180 - 104 - 53^{\circ}$$
 $\Delta = 180^{\circ}$
 $180 - 157$
 $2p = 23^{\circ}$
 $2x = 2p = 23^{\circ}$ alternate interior
 $2g = 180 - 125 - 23$ $\Delta = 180^{\circ}$
 $= 180 - 148$
 $2g = 32^{\circ}$

- 10. Consider:
- All clarinet players are musicians
- Fred is a clarinet player

What conclusion can be made? Can you prove it?

Fred is a musician

