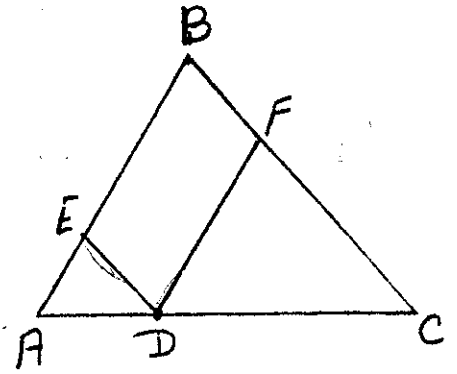


Riverdale

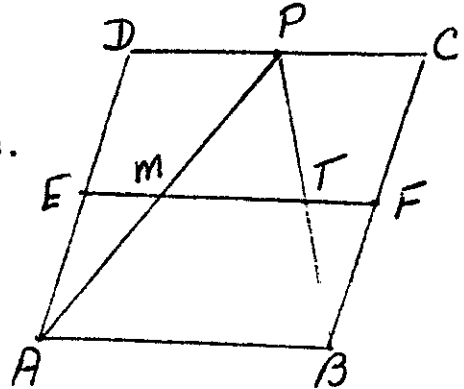
GEOMETRY REGIONAL JANUARY 12 QUESTION 1

Given: $\triangle ABC$ is isosceles. $AB = BC = 24$; $AC = 10$
 $\overline{DE} \parallel \overline{BC}$; $\overline{DF} \parallel \overline{AB}$. Find the perimeter
of $\square EDFB$



GEOMETRY REGIONAL JANUARY 12 QUESTION 2

Given: $\square ABCD$. P, M, and T are all midpoints.
 $DC = 4x + 18$; $BC = 2x + 14$;
Find TF



GEOMETRY REGIONAL JANUARY 12 QUESTION 3

The exterior angle of an equiangular polygon equals 40° . Find the
number of sides in the polygon.

GEOMETRY REGIONAL JANUARY 12 QUESTION 4

Two consecutive angles of a quadrilateral are 85° and 100° . Find
the angle between the bisectors of the other two angles.

GEOMETRY REGIONAL JANUARY 12 QUESTION 5

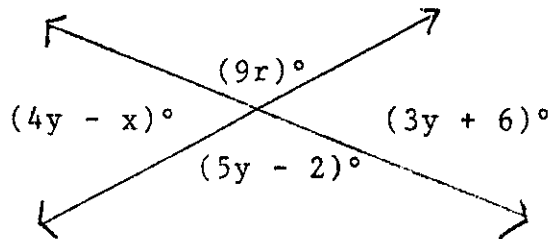
The upper base of an isosceles trapezoid equals one-half the lower base. Find the angles of the trapezoid, if the non-parallel sides equal the upper base.

GEOMETRY REGIONAL JANUARY 12 QUESTION 6

The hypotenuse of a right triangle is 6" and one leg is 3". Find the angles of the triangle and the length of the median to the hypotenuse.

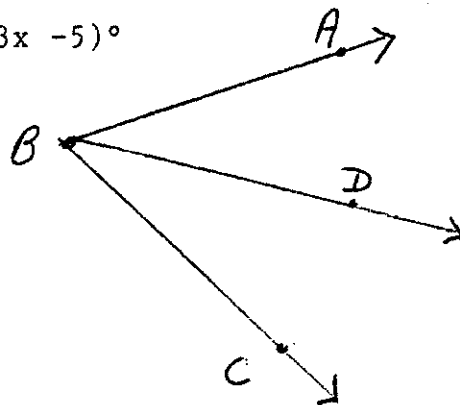
GEOMETRY REGIONAL JANUARY 12 QUESTION 7

If the two straight lines in the figure intersect at R, What is the value of r?



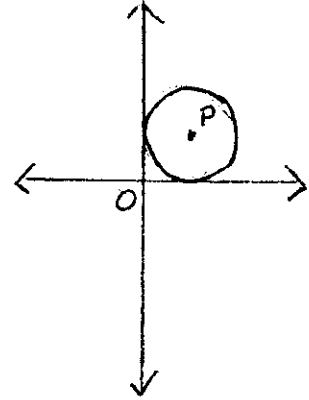
GEOMETRY REGIONAL JANUARY 12 QUESTION 8

$\vec{BA} \perp \vec{BC}$ and \vec{BD} is drawn. If $m\angle ABD = (3x - 5)^\circ$ and $m\angle CBD = (5x - 17)^\circ$, then $m\angle ABD = ?$



GEOMETRY REGIONAL JANUARY 12 QUESTION 9

A circle with center P has an area of 16π square units and is tangent to the x and y -axis. The coordinates of P are ?



GEOMETRY REGIONAL JANUARY 12 QUESTION 10

The equation of the line parallel to the x -axis and four units below it, is?

GEOMETRY REGIONAL JANUARY 12 QUESTION 11

In $\triangle ABC$ the coordinates of the vertices are $A(1,2)$ $B(6,1)$ and $C(4,5)$. If AM is the median drawn from A to BC the coordinates of M are ?

GEOMETRY REGIONAL JANUARY 12 QUESTION 12

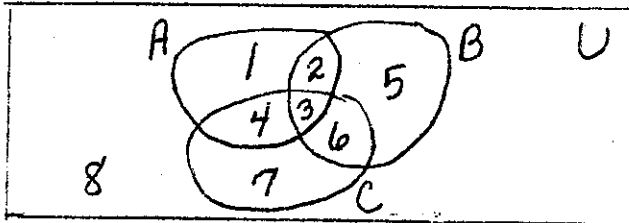
If $\frac{3}{8}$ of a side of a rhombus is 6, what is its perimeter?

GEOMETRY REGIONAL JANUARY 12 QUESTION 13

Find the degree measure of the acute angle that is formed by the hands of the clock at 2:23.

GEOMETRY REGIONAL JANUARY 12 QUESTION 14

Given:



list the elements in $A \cup (B \cap C)$

3, 6
1, 2, 3, 4, 6

GEOMETRY REGIONAL JANUARY 12 QUESTION 15

Express as a single fraction the measure of the third angle of a triangle in which two angles have measures $n/2$ and $t/5$ respectively.