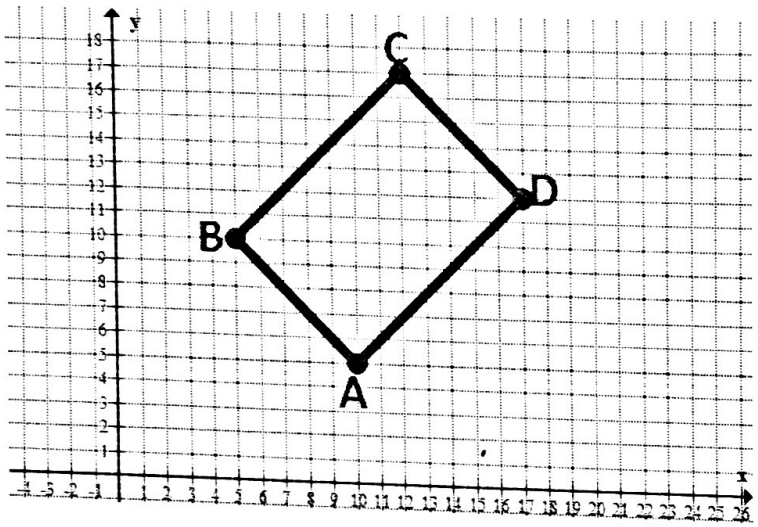
Accelerated Geom/Alg2
Introduction to Geometry Review

Name_____
Date_____ **Block**_____

Multiple Choice: Choose the best answer.

Use the diagram below to answer the questions 1-3.



1. Find the distance for segment AD.

A. 7 B. $7\sqrt{2}$ C. 49 D. 98

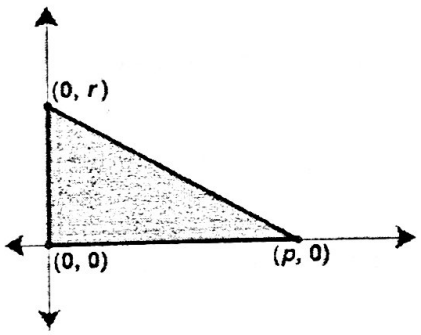
2. Find the distance for segment BA.

A. $2\sqrt{5}$ B. 5 C. $5\sqrt{2}$ D. 50

3. Find the area of the rectangle ABCD above.

A. 35 $units^2$ B. 50 $units^2$ C. 60 $units^2$ D. 70 $units^2$

4. Which expression represents the area of the triangle?



A. pr B. $\frac{1}{2}pr$ C. $p + r$ D. pr^2

5. Look at the coordinates for triangle XYZ.

X(-3,-1) Y(2,3) Z(2,-1)

Using the distance formula, find the perimeter of triangle XYZ?

A. 9 units B. 10 units C. $9 + \sqrt{41}$ units D. 50 units

Matching: Match the definition with the correct vocabulary word listed below.

A. Equilateral Polygon
B. Equiangular Polygon
C. Complementary Angles
D. Supplementary Angles
E. Diagonal
F. Hexagon
G. Pentagon
H. Triangle
I. Quadrilateral
J. Angle Bisector
K. Segment Addition Postulate
L. Angle Addition Postulate
M. Acute Angle
N. Obtuse Angle

6. A(n) J is a ray that contains the vertex of an angle and divides the angle into two congruent angles.

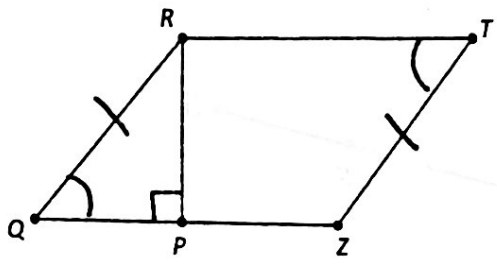
7. A polygon with five sides is a G.

8. Two angles that measure to 90 degrees are C.

9. A polygon with all congruent sides is called A.

10. Mark the figure with the given information.

$m\angle RPQ = 90°$, $\overline{QR} \cong \overline{TZ}$, $\angle Q \cong \angle T$

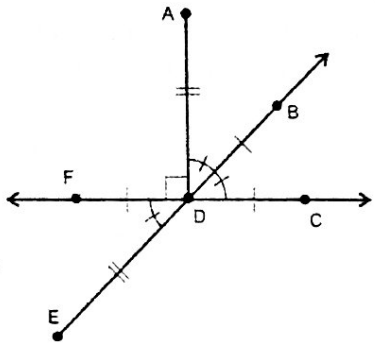


11. Use the figure at the right to correctly name each.

a) Angle Bisector $\overrightarrow{DB}$

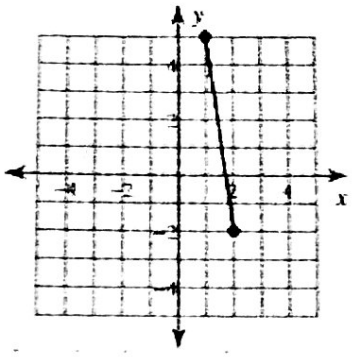
b) Name a right angle $\angle ADF$

c) What segment is congruent to segment FD? $\overline{DC}$

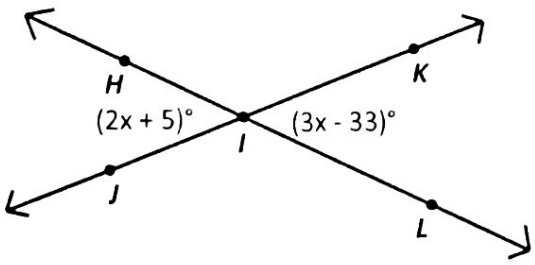


12. If $DE = 9$ cm, what is the perimeter of regular pentagon $ABCDE$? 45 cm

13. Find the midpoint between the two points below (1.5, 1.5)



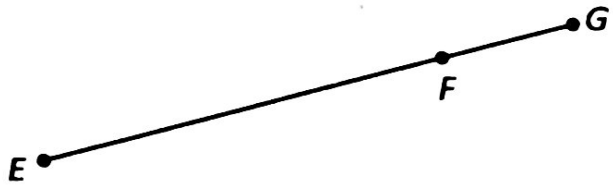
14. Find the value of x. Then find the measure of angle HIJ.



x = 38

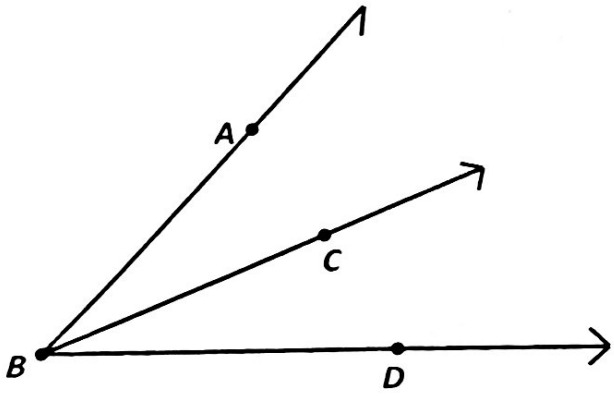
$m\angle HIJ$ = 81°

15. Let EF = 20x – 7, FG = 12x + 23, and EG = 112. Find the indicated variable. Then find the measure of EF.



x = 3
EF = 53

16. If $\overline{BC}$ is the angle bisector of $\angle ABD$, $m\angle CBD = 3x - 7$, and $m\angle ABD = 4x + 18$, solve for x. Then find the measure of $\angle ABD$.



x = 16
$m\angle ABD$ = 82°