

Name: _____

Geometry Quarter 1 Test - Study Guide.

- Find the distance between the points $(-3, -3)$ and $(-15, -8)$.
- Point S is between points R and T . P is the midpoint of \overline{RS} . $RT = 20$ and $PS = 4$. Draw a sketch to show the relationship between the specified segments. Find ST .

- Find AB and BC if $BC = 7x - 13$, $AB = 4x + 28$, B is the midpoint of \overline{AC} .



- Find the coordinates of the midpoint of the segment with the given pair of endpoints: $A(6, 6)$; $C(2, -4)$
- Find the measures of $\angle PMN$ and $\angle NMR$ if \overline{MN} bisects $\angle PMR$. The measure of $\angle PMR$ is 102° . Draw a sketch that shows the given information.
- In the figure shown, $m\angle AED = 117^\circ$. True or False: $\angle CBD$ and $\angle AED$ are adjacent angles and $m\angle CBD = 63^\circ$.



- Name a pair of vertical angles in the figure:
 - Name an angle supplementary to $\angle 2$ in the figure.
- Complete the table.



n	1	2	3	4	5	6
n 's number	1	3	5	7	9	7

- Identify the hypothesis and conclusion of the statement.
If yesterday was Saturday, then tomorrow is Monday.
- "If it doesn't rain then I will go to the game." What is the underlined portion called in this conditional statement?
- Is the statement true or false? Explain your reasoning.
Perpendicular lines always intersect at right angles.
- Refer to the following statement: Two lines are perpendicular if and only if they intersect to form a right angle.
A. Is this a biconditional statement?
B. Is the statement true?
- Write the converse of the true statement and decide whether the converse is true or false. If the converse is true, combine it with the original statement to form a true biconditional statement. If the converse is false, state a counterexample.
If four points are not coplanar, then they are not collinear.