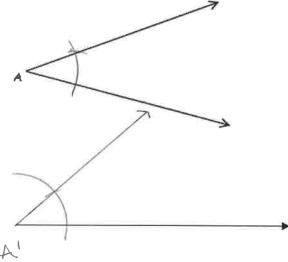
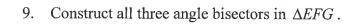
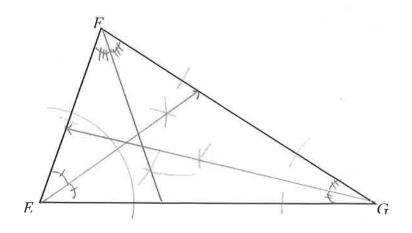
Name: \(\sum \) #1-6 The state	Geometry Top ements below are false. Circle the part	ic 1 Test Review that is incorrect and w	Period:	_ Date:ection in the space
provided.	-			•
1. <u>plan</u>	LThe three basic building blocks (undef	ined terms) of geometry	are lines, rays	and points
2. <u>P</u>	"The ray from point R through points R	Q and Q " is named as \overline{RQ}	\vec{p} or \vec{PR} .	To a located to
3. PQ	"The <i>length</i> of line segment <i>PQ</i> " is wr	itten as \overline{PQ} .		
4. <u>B</u>	The vertex of $\angle ABC$ is poin(A.)			
s Par	If \overrightarrow{AB} intersects \overrightarrow{CD} at point P such the points C and D , then $\angle APC$ and $\angle APD$			and also between
6. <u>167°</u>	If $m \angle D = 167^{\circ}$, then the angle vertical	to $\angle D$ has a measure of	of 13°.	A LP B
#7-9 construct	ions			
7. Copy $\angle A$ b	pelow on the ray provided.	8. Construct an equilat	eral triangle w	vith side lengths





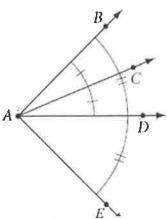
E





#10-14 Fill in the blank. Use the diagram to the right.

- 10. A is the $\sqrt{\text{evtex}}$ of $\angle BAE$.
- 11. \overrightarrow{AD} is the analy bisector of $\angle BAE$.
- 12. \overrightarrow{AD} is a $S \setminus \overrightarrow{AC}$ of $\angle DAE$.
- 13. If $m\angle BAC = 42^{\circ}$, then $m\angle CAE = 120^{\circ}$
- 14. ∠DAB ≅ ∠DAE.



#15-17 Calculate the midpoint (M) or the endpoint (B) of segment \overline{AB} based on the given information:

- 15. A(9, 5) and B(17, 4)
- 16. M(0, 5.5) and A(-3, 6)

17. M(-1, 5) and A(-4, 3)

$$M = \left(\frac{9+17}{2}, \frac{5+4}{2}\right)$$

$$0 = -3 + x_B$$

 $x_B = 3$ $(3,5) = B$

$$-1 = -4t \times_{B}$$

$$-1 = -4t \times_{B}$$

$$2 = -4t \times_{B}$$

$$2 = X_{B}$$

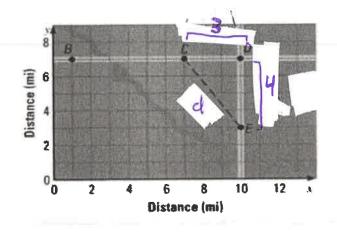
$$5 = 3t \cdot 4_{B}$$

$$7 = 4_{B}$$

$$7 = 4_{B}$$

$$1(-2,7) = B$$

18. While training for a marathon, you decide to run from your home at E(10,3), through the park to C(7,7), along the road to D(10,7), and then straight back home. How far will you run?



$$d = \sqrt{(10-1)^2 + (3-1)^2}$$

$$= \sqrt{9+16}$$

$$= \sqrt{25}$$

$$= 5$$

$$5 + 3 + 4 = 12 \text{ miles}$$

#19-20, use inductive reasoning to find the next term in the sequence. Explain the pattern used.

19. 2, 16, 128, 1024, 8,192

Multiply by 8

20. 3, 5, 9, 15, 23, 33, 45

adding the next even #

Geometry Topic 1 Test Review

Period:	Date:

#21-23 Fill in the blank

- 1800 If two angles form a linear pair of angles, then the sum of their measures is 21.
- If two angles are vertical angles, then they are PNAVVIII. 22.
- If two angles are equal in measure and Complemental, then each angle measures 45°. 23.

#24-26, Underline the hypothesis and circle the conclusion in each conditional statement. Then write the converse of the given conditional statement. Decide if the converse is TRUE or FALSE. If it is false, identify a counterexample or draw a picture of a counterexample.

24. If two angles are complementary, then they are acute.

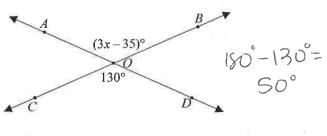
(f two angles are acute, then they are Complehuntary False 30° + 230° = 160° not A,

If two angues are both congruent then they are night angles. False sus; + les not

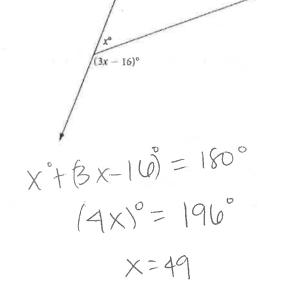
26 You play tennis if you are on the tennis team.

if you play tennis you are on the tennisteam. #27 and 28 use the figures given below to answer the indicated questions.

$$27. \ x = \underline{55} \qquad m \angle BOD = \underline{50}^\circ$$



28.
$$x = 40$$



29. Fill in the missing statements and reasons using the image at right. (You can use word bank to help).

Statement	Reason	
A. LWZX=LWZV	A. Given	
ZWZX and ZWZV B. We a linear Dair	B. Definition of Linear Pair	
C. $m \angle WZX + m \angle WZV = 180$	c. Linear pair theorem	
D. $m \angle WZX = m \angle WZV = 90$	D. Supplementery congrent and	
E. WY T VX	E. Definition of \(\pri \) lines	

-Supplementary congruent angles are right angles

-Linear Pair Theorem

 $WY \perp VX$

 $\angle WZX \cong \angle WZV$ $\angle WZX$ and $\angle WZV$ are a linear pair

30. Fill in the missing statements and reasons.

Given: $4(5n+7)-3n=3(4n-9)$		
Prove: $n = -11$		
Statement	Reason	
A. $4(5n+7)-3n=3(4n-9)$	A. CIVEN	
B. 20n+28-3n=12n-27	B. Distributive Property of Multiplication	
C. $17n + 28 = 12n - 27$	C. Combine Like Terms	
D. $5n + 28 = -27$	D. Suptraction property of equality	
E. $5\eta = -55$	E. Subtraction Property of Equality	
F. $n = -11$	F. division property of equality	