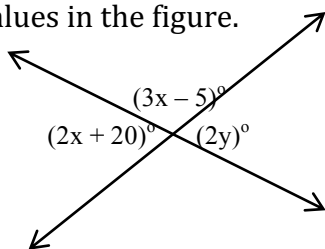


Show expected work, marks, and labels. Circle your answers please. ☺

1.4-7 Find the variable values in the figure.

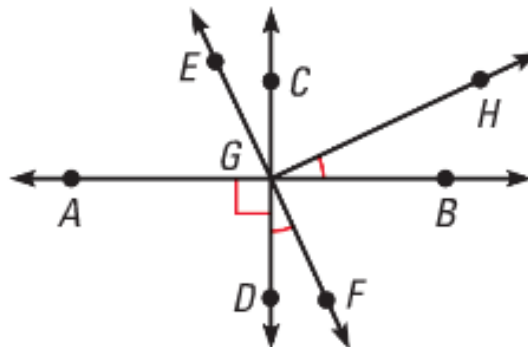


In #2 & #3, use the diagram below with $m\angle BGH = 35^\circ$, find...

**You MUST mark the diagram with degrees*

2.1-7 $m\angle CGE =$

3.1-7 $m\angle DGH =$



In 4 - 9, match the statement with the property that it illustrates. Write the CAPITAL letter.

___4.1-5 If $m\angle ABC = 25^\circ$ and $m\angle J LH = 25^\circ$, then $m\angle J LH = m\angle ABC$.

___5.1-5 If $x = 6(5)$ then $x = 30$

___6.1-5 If $D = 10$ and $D + E = F$, then $10 + E = F$

___7.1-5 $3(x - 4) = 3(x) + 3(4)$

___8.1-5 If $\overline{JH} \cong \overline{BR}$, then $\overline{BR} \cong \overline{JH}$

___9.1-5 If $x = 9$ then $2x = 2(9)$

- A. Distributive Property
- B. Transitive Property
- C. Symmetric Property
- D. Multiplication Property
- E. Multiplication (simplify)
- F. Reflexive Property
- G. Substitution

In 10 and 11, give a counterexample to show each statement is false.

You may sketch an illustration or give a specific example.

10.1-1 All intersecting lines form 45-degree angles.

11.1-1 All teachers have blonde hair.

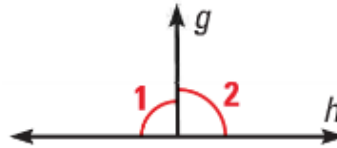
12.2-6 Make a properly labeled sketch at the right for the following information... (one sketch)

$\angle TWU$ and $\angle UWL$ are a linear pair and
 $\angle UWL$ and $\angle LWC$ are adjacent supplementary angles.

13.4-5/6

Fill in the reasons for the two-column proof using the list of possible reasons.

GIVEN: $\angle 1$ and $\angle 2$ are a linear pair, $\angle 1 \cong \angle 2$
PROVE: $\angle 1$ is a right angle



STATEMENTS

REASONS

List of possible reasons:

a. _____	a. _____
b. _____	b. Definition of a linear pair
c. _____	c. Definition of supplementary
d. $\angle 1 \cong \angle 2$	d. _____
e. _____	e. Definition of congruence
f. $m\angle 1 + m\angle 1 = 180^\circ$	f. _____
g. $2(m\angle 1) = 180^\circ$	g. _____
h. _____	h. Division
i. $\angle 1$ is a right angle	i. _____

- Adding (Simplify)
- Addition Property
- Definition of Congruence
- Definition of a Linear Pair
- Definition of Parallel
- Definition of Perpendicular
- Definition of a Right Angle
- Definition of Supplementary
- Division (Simplify)
- Division Property
- Given
- Substitution
- Subtraction (Simplify)
- Subtraction Property
- Transitive

In 14 - 21, use the diagram to determine if the statement is *true* or *false*.
 Write the full word "TRUE" or "FALSE" please ☺

- _____ 14.1-4 \overline{TW} intersects plane Z at point Y.
- _____ 15.1-4 \overline{YU} lies in plane Z.
- _____ 16.1-4 Points T, X, U, and W are coplanar.
- _____ 17.1-4 $\angle TYX$ and $\angle UYW$ are vertical angles.
- _____ 18.1-4 Points X, Y and U are collinear.
- _____ 19.1-4 $\angle TYX$ and $\angle WYX$ form a linear pair.
- _____ 20.1-4 Plane TXY and plane YSX intersect at \overline{XU} .
- _____ 21.1-4 Plane SYU and plane VYU form the same plane.

