

1-5. State which property justifies the step shown.

1. $x + 7 = 9$
 $x = 2$

2. $y - 8 = 14$
 $y = 22$

3. $14a = 42$
 $a = 3$

4. $\frac{x}{2} = -10$
 $x = -20$

5. $5(x + 7)$
 $= 5x + 35$

subtraction
prop of =

addition
prop =

division
prop =

multiplication
prop =

Distributive
prop =

6-8. State which property justifies following statements.

6. If $7x = 21$, then $21 = 7x$

7. $32ab = 32ab$

8. If $7x = 21$, and $21 = 3y$ then $7x = 3y$

Symmetric Prop

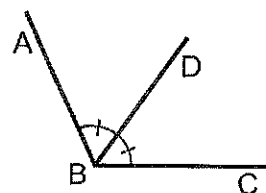
Reflexive Prop

Transitive prop

9-16. Fill in each blank with the correct vocab word. No words repeat and not all are used.

• Angle Addition Postulate	• Vertical Angles
• Complementary Angles	• Angle Bisector
• Symmetric Property	• Midpoint
• Segment Addition Postulate	• Linear Pair
• Supplementary Angles	• Transitive Property

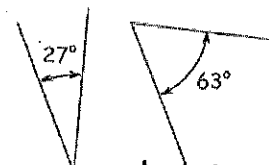
9. BD is the Angle Bisector



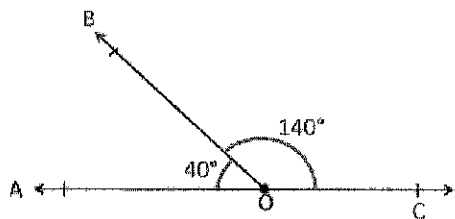
10. M is the Midpoint of AB



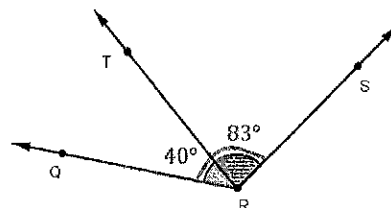
11. The angles below are complementary



12. The diagram shows a Linear Pair

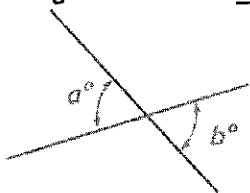


13. The Angle Addition Postulate is represented below

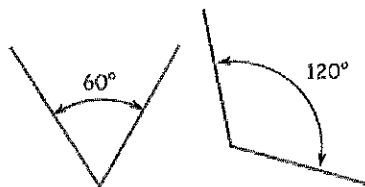


$40^\circ + 83^\circ = 123^\circ$

14. Angle a and b are Vertical angles



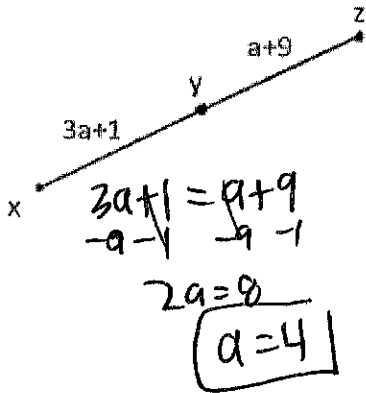
15. The angles below are Supplementary



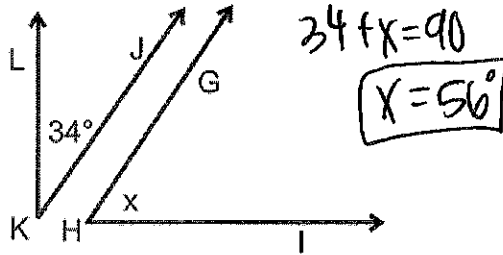
16. $AM + MB = AB$: Segment Addition Postulate



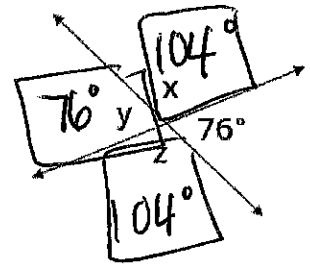
17. Y is the midpoint of XZ.
Solve for a.



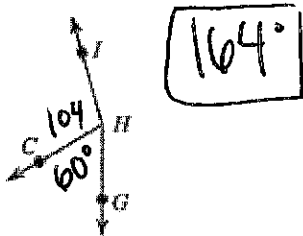
18. The angles are complementary.
Solve for x.



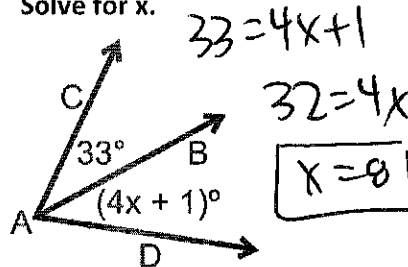
19. Find the measures of x, y and z.



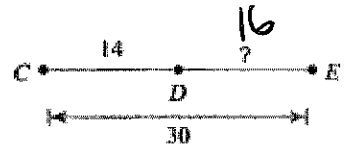
20. $m\angle GHC = 60^\circ$ and $m\angle CHI = 104^\circ$.
Find $m\angle GHI$.



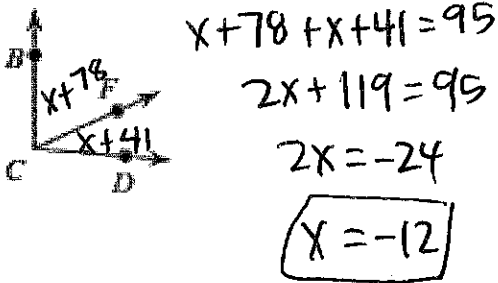
21. AB is the angle bisector.
Solve for x.



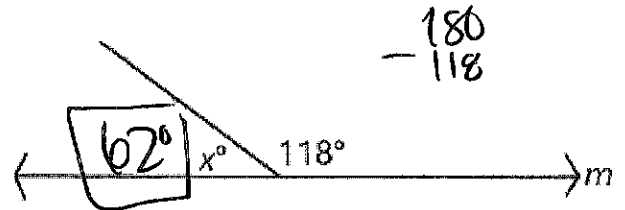
22. DE = 16



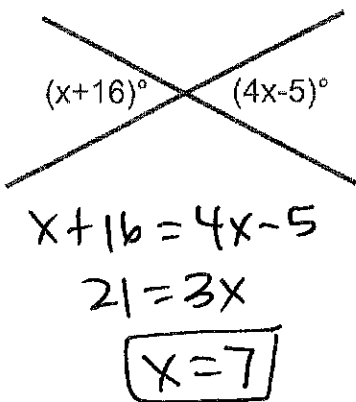
23. $m\angle FCD = x + 41$, $m\angle BCF = x + 78$,
and $m\angle BCD = 95^\circ$. Find x.



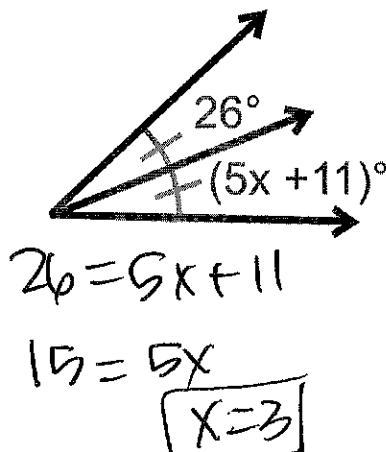
24. Find the measure of angle x.



25. Solve for x.
Find the measure of each angle.



26. Solve for x.



27. Solve for x.

