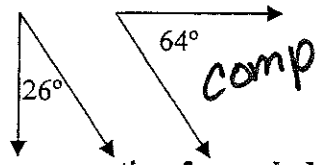
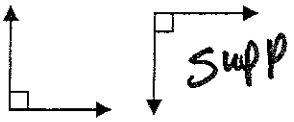
Oct 6

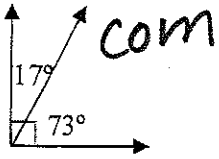
Complementary, Supplementary, Vertical Angles

Identify each pair of angles as complementary, supplementary or neither.

1. 

comp

2. 
supp

3. 

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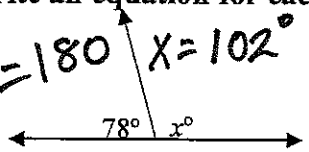
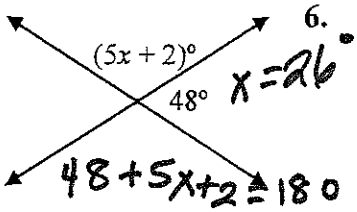
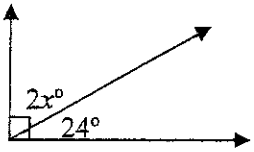
Write an equation for each description. Solve for x.

4. 

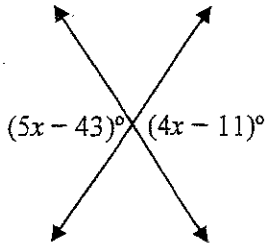
$78+x=180$ $x=102°$

5. 

$x=26°$
$48+5x+2=180$

6. 

$2x+24=90$
$x=33°$

7. 

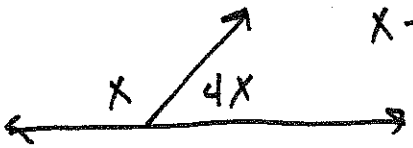
$5x-43=4x-11$
$x=117°$

8. The complement of $\angle P$ is 73°. Find $m\angle P$.

9. The supplement of $\angle H$ is 34°. Find $m\angle H$.

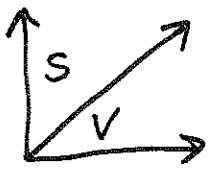
Sketch a diagram and find the measure of each angle.

10. $m\angle 2 = x°$
$m\angle 3 = 4x°$
$\angle 2$ and $\angle 3$ are supplementary



$x+4x=180$
$5x=180$
$x=36°$

11. $m\angle S = (3x+1)°$
$m\angle V = (x+9)°$
$\angle S$ and $\angle V$ are complementary



$3x+1+x+9=90$
$4x+10=90$
$-10 \quad -10$
$4x=80 \quad x=20$