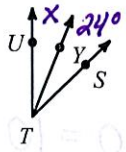
Geometry - Angles Name_____

Review: 1.1 - 1.4

Date_____

Find the measure of each angle.

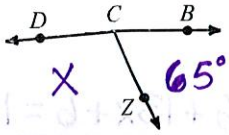
1) Find $m\angle UTY$ if $m\angle YTS = 24°$ and $m\angle UTS = 46°$.



$x + 24 = 46$

$x = 22°$

2) Find $m\angle ZCD$ if $m\angle BCZ = 65°$ and $m\angle BCD = 175°$.

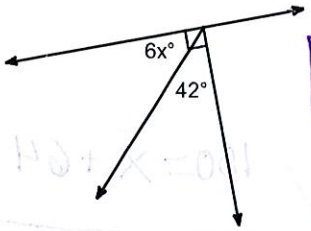


$175 = x + 65$

$x = 110°$

Find the value of x.

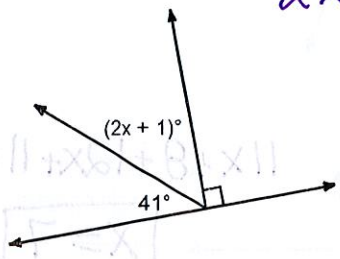
3)



$6x + 42 = 90$

$x = 8$

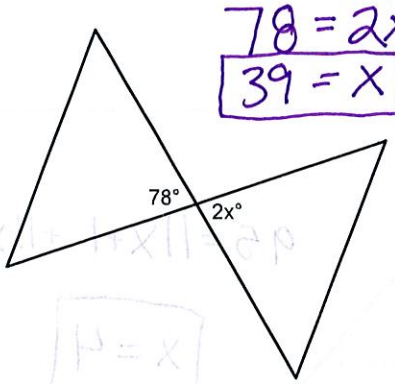
4)



$2x + 1 + 41 = 90$

$x = 24$

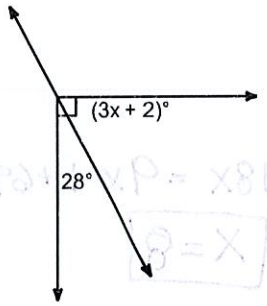
5)



$78 = 2x$

$39 = x$

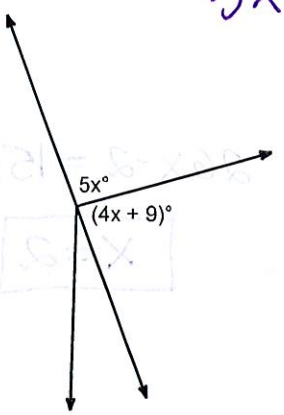
6)



$3x + 2 + 28 = 90$

$x = 20$

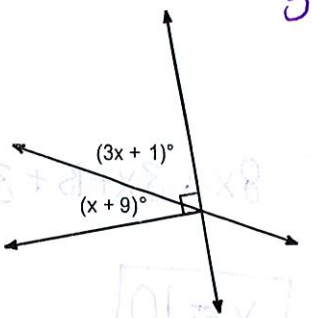
7)



$5x + 4x + 9 = 180$

$x = 19$

8)



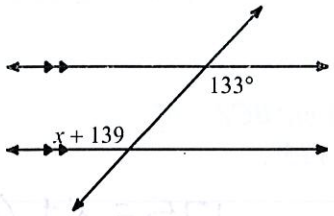
$3x + 1 + x + 9 = 90$

$x = 20$

Solve for *x*.

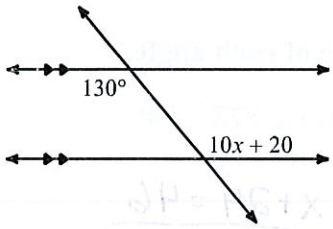
9) $x + 139 = 133$

$x = -6$



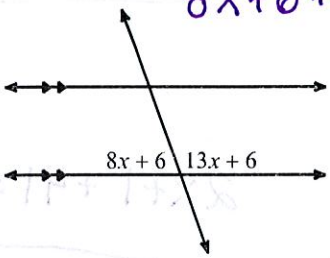
10) $130 = 10x + 20$

$x = 11$



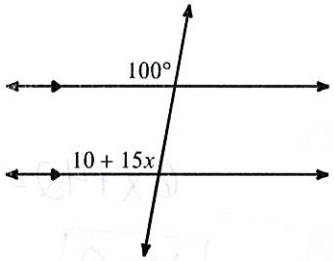
11) $8x + 6 + 13x + 6 = 180$

$x = 8$



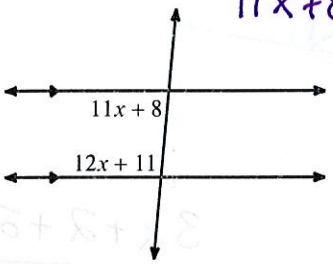
12) $100 = 10 + 15x$

$x = 6$



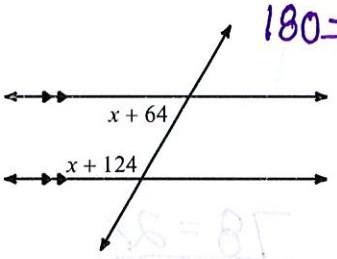
13) $11x + 8 + 12x + 11 = 180$

$x = 7$



14) $180 = x + 64 + x + 124$

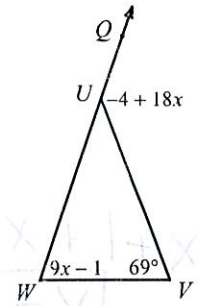
$x = -4$



Solve for x.

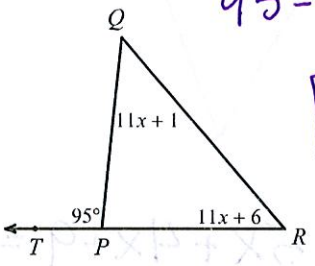
15) $-4 + 18x = 9x - 1 + 69$

$x = 8$



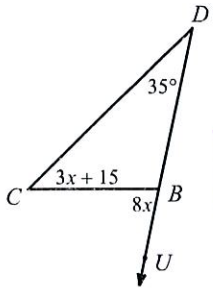
16) $95 = 11x + 1 + 11x + 6$

$x = 4$



17) $8x = 3x + 15 + 35$

$x = 10$



18) $26x - 2 = 15x + 20$

$x = 2$