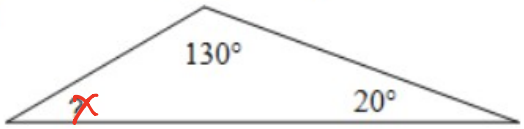
Transversals – Parallel Lines and Triangles

Hw Section 3.4 Name_____

Find the measure of each angle indicated.

1)

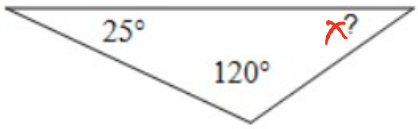


$x + 20 + 130 = 180$

$x + 150 = 180$

$x = 30$

2)

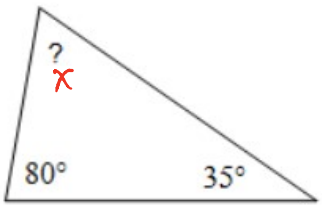


$x + 25 + 120 = 180$

$x + 145 = 180$

$x = 35$

3)

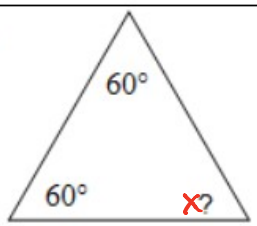


$x + 35 + 80 = 180$

$x + 115 = 180$

$x = 65$

4)



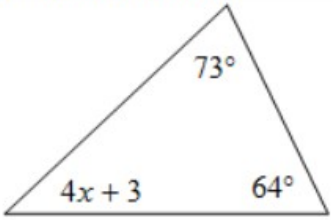
$x + 60 + 60 = 180$

$x + 120 = 180$

$x = 60$

Directions: Solve for x.

5)



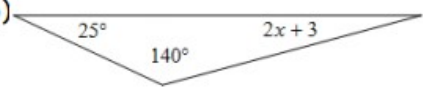
$(4x + 3) + (73) + (64) = 180$

$4x + 140 = 180$

$4x = 40$

$x = 10$

6)



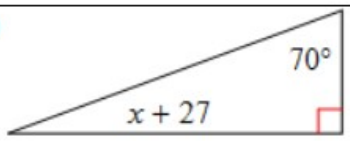
$(25) + (140) + (2x + 3) = 180$

$2x + 168 = 180$

$2x = 12$

$x = 6$

7)



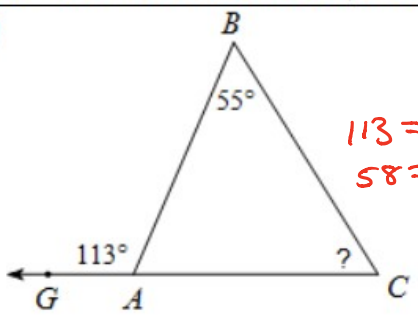
$(x + 27) + (70) + (90) = 180$

$x + 187 = 180$

$x = -7$

Directions: Find the measure of each angle indicated.

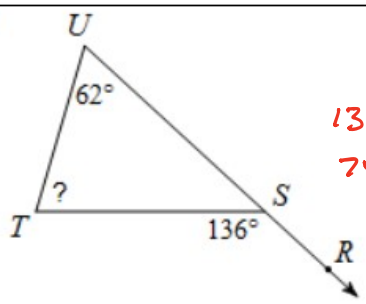
8)



$113 = 55 + m\angle C$

$58 = m\angle C$

9)



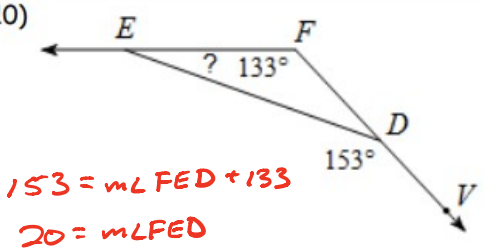
$136 = 62 + m\angle T$

$74 = m\angle T$

Transversals – Parallel Lines and Triangles

Hw Section 3.4 Name_____

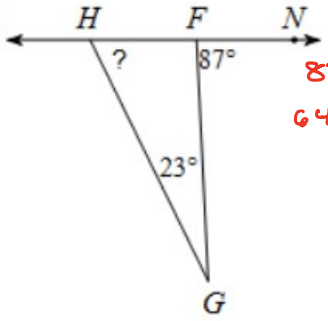
10)



$153 = m\angle FED + 133$

$20 = m\angle FED$

11)

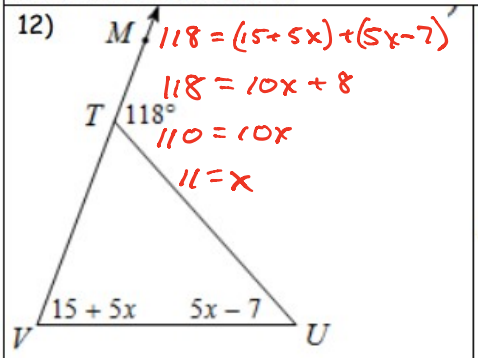


$87 = m\angle FHG + 23$

$64 = m\angle FHG$

Directions: Solve for x.

12)



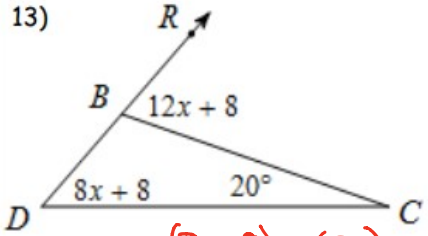
$118 = (15 + 5x) + (5x - 7)$

$118 = 10x + 8$

$110 = 10x$

$11 = x$

13)



$12x + 8 = (8x + 8) + (20)$

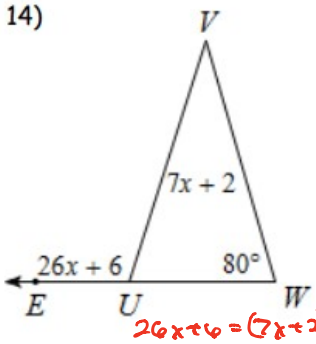
$12x + 8 = 8x + 28$

$4x + 8 = 28$

$4x = 20$

$x = 5$

14)



$26x + 6 = (7x + 2) + (80)$

$26x + 6 = 7x + 82$

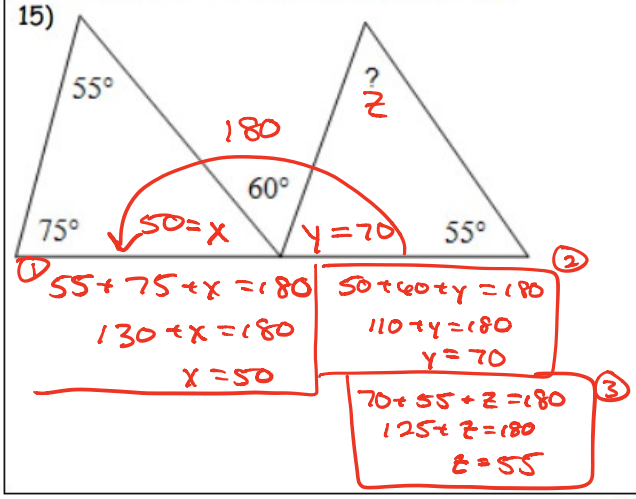
$19x + 6 = 82$

$19x = 76$

$x = 4$

Directions:Find the measure of each angle.

15)



① $55 + 75 + x = 180$

$130 + x = 180$

$x = 50$

② $50 + 60 + y = 180$

$110 + y = 180$

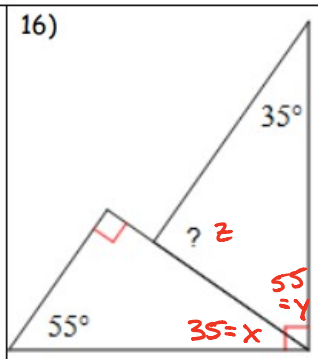
$y = 70$

③ $70 + 55 + z = 180$

$125 + z = 180$

$z = 55$

16)



① $x + 55 + 90 = 180$

$x + 145 = 180$

$x = 35$

$35 + y = 90$

$y = 55$

$z + 55 + 35 = 180$

$z + 90 = 180$

$z = 90$

Algebra Review

Solve: $7y - 18 = -4$

$7y = 14$

$y = 2$

Solve: 5h - 2 = 2h + 10

$3h - 2 = 10$

$3h = 12$

$h = 4$

Multiply: $2x^2(3x^3 + 8x)$

$= 6x^5 + 16x^3$