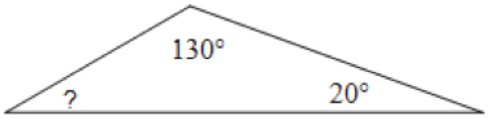
# 3.4 Practice Problems

Find the measure of each angle indicated.

1)



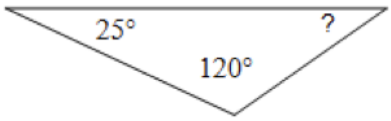

$130+20+?=180$

$150+?=180$

$-150 \quad -150$

$?=30°$

2)



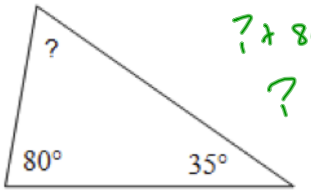

$25+120+?=180$

$145+?=180$

$-145 \quad -145$

$?=35°$

3)



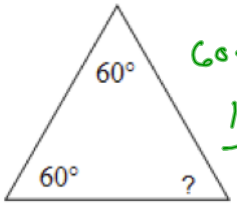

$?+80+35=180$

$?+115=180$

$-115 \quad -115$

$?=65°$

4)




$60+60+?=180$

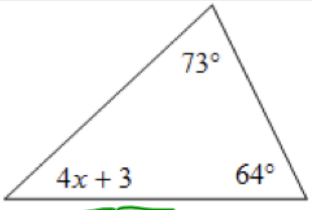
$120+?=180$

$-120 \quad -120$

$?=60°$

Directions: Solve for x.

5)




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

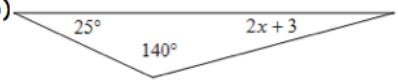
$140+4x=180$

$-140 \quad -140$

$\frac{4x}{4}=\frac{40}{4}$

$x=10$

6)




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

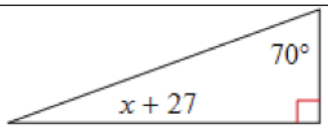
$168+2x=180$

$-168 \quad -168$

$\frac{2x}{2}=\frac{12}{2}$

$x=6$

7)




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

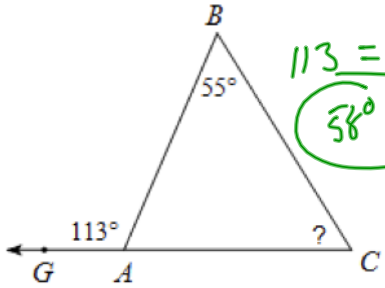
$x+187=180$

$-187 \quad -187$

$x=-7$

Directions: Find the measure of each angle indicated.

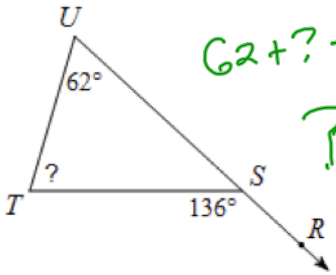
8)




$113=55+?$

$58°=?$

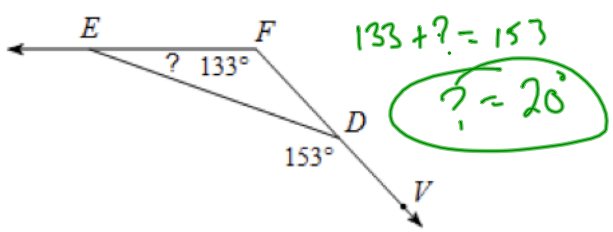
9)




$62+?=136$

$?=74°$

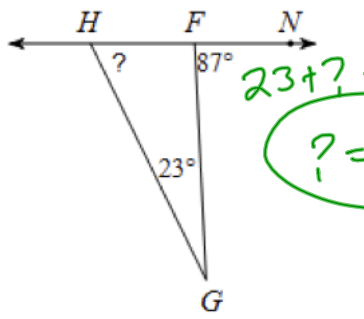
10)




$133 + ? = 153$

$? = 20°$

11)

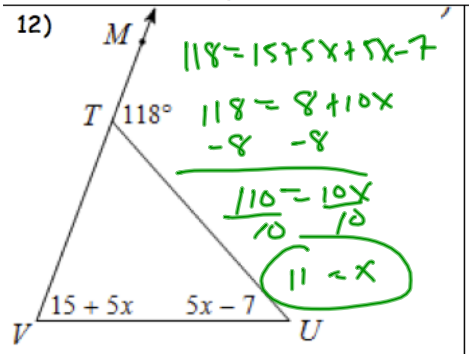



$23 + ? = 87$

$? = 64°$

Directions: Solve for x.

12)




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

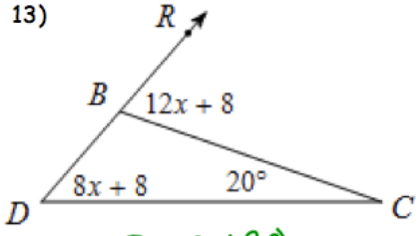
$118 = 8 + 10x$

$-8 \quad -8$

$\frac{110}{10} = \frac{10x}{10}$

$11 = x$

13)




$12x + 8 = 8x + 8 + 20$

$12x + 8 = 8x + 28$

$-8x \quad -8x$

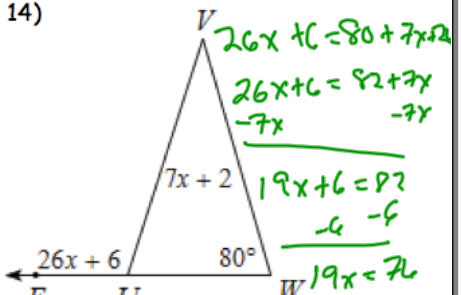
$4x + 8 = 28$

$-8 \quad -8$

$4x = 20$

$x = 5$

14)




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

$26x + 6 = 82 + 7x$

$-7x \quad -7x$

$19x + 6 = 82$

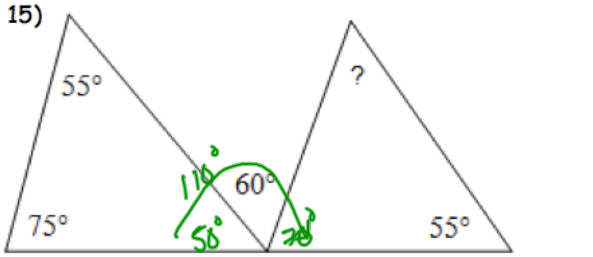
$-6 \quad -6$

$\frac{19x}{19} = \frac{76}{19}$

$x = 4$

Directions:Find the measure of each angle.

15)




$75 + 55 + ? = 180$

$130 + ? = 180$

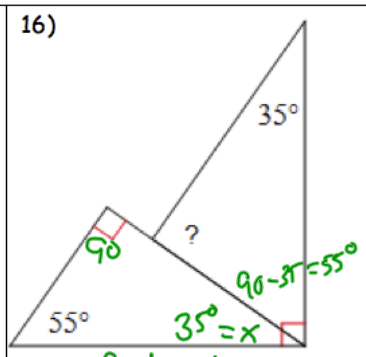
$-50$

$70 + 55 + ? = 180$

$125 + ? = 180$

$? = 55°$

16)

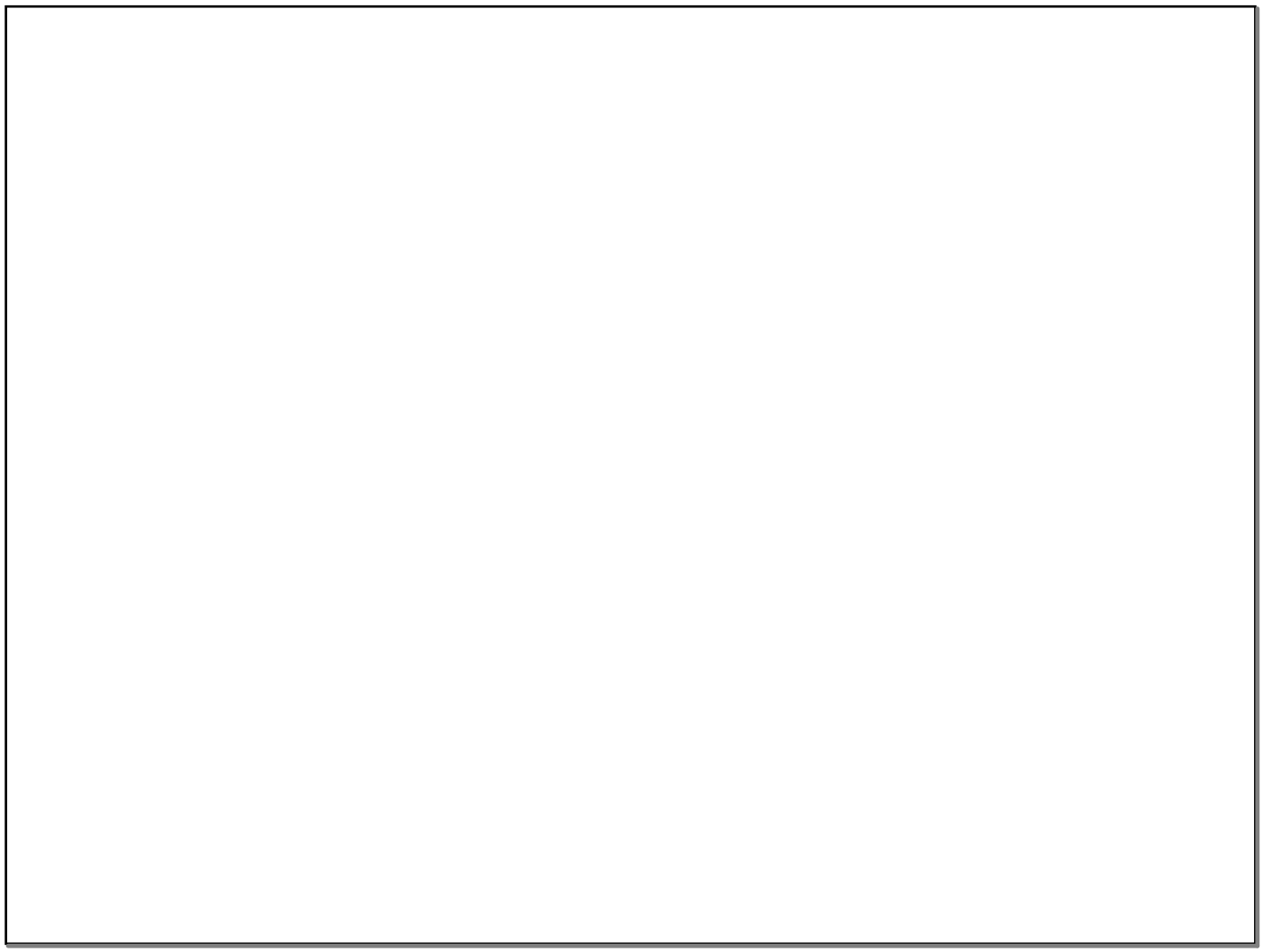



$55 + 90 + x = 180$

$145 + x = 180$

$x = 35°$

$55 + 35 + ? = 180$

$90 + ? = 180$

$? = 90°$