Math 2

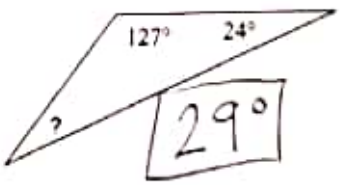
Name Key ID: 1

7.3- Triangle Angle Sum Theorems

Date _____ Period ____

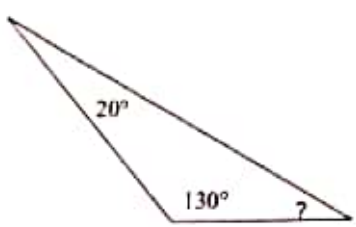
Find the measure of each angle indicated.

1)



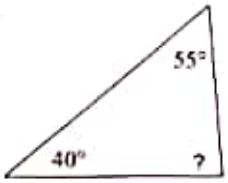
29°

2)



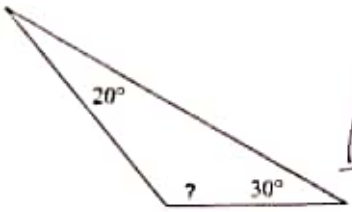
30

3)



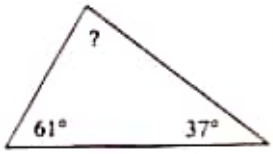
85°

4)



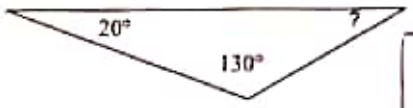
130°

5)



82°

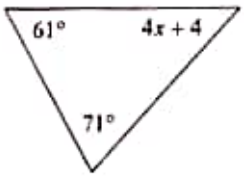
6)



30°

Solve for *x*.

7)

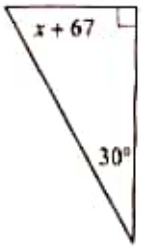


$61+71+4x+4=180$

$136+4x=180$

$x=11$

8)

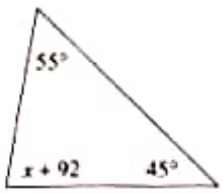


$30+90+x+67=180$

$187+x=180$

$x=-7$

9)

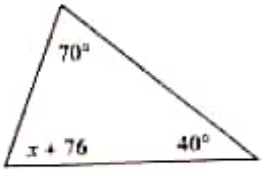


$55+45+x+92=180$

$192+x=180$

$\boxed{x=-12}$

10)

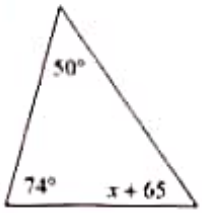


$70+40+x+76=180$

$186+x=180$

$\boxed{x=-6}$

11)

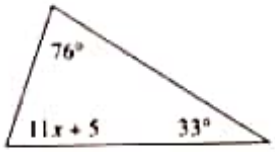


$50+74+x+65=180$

$189+x=180$

$\boxed{x=-9}$

12)



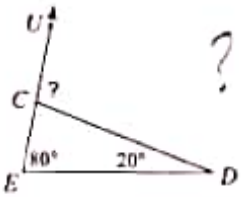
$76+33+11x+5=180$

$114+11x=180$

$\boxed{x=6}$

Find the measure of each angle indicated.

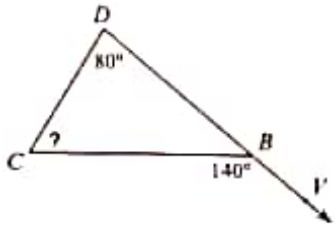
13)



$?=80+20$

$\boxed{=100°}$

14)

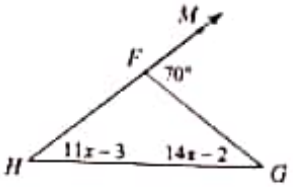


$140=80+x$

$\boxed{x=60°}$

Solve for *x*.

15)

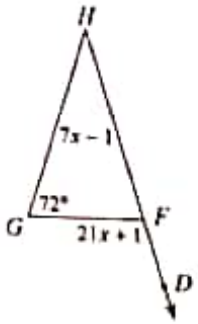


$70=11x-3+14x-2$

$70=25x-5$

$\boxed{x=3}$

16)



$21x+1=72+7x-1$

$14x=70$

$\boxed{x=5}$