Angles in Polygons

Find the measures of the indicated angles.
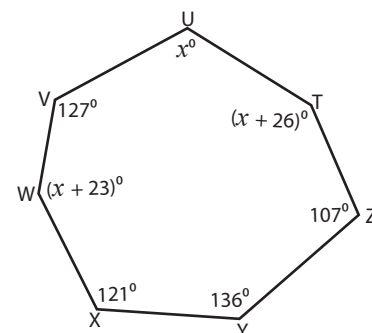
1)

V $(x + 49)^0$ 73⁰ U

$(x - 17)^0$ $(x + 33)^0$
W   T

2)

D 88⁰ $(x + 63)^0$ C

$(x + 47)^0$ B

$(x + 46)^0$
E   116⁰
            A

3)

U
x^0

V 127⁰ $(x + 26)^0$ T

W $(x + 23)^0$
                    107⁰ Z

121⁰   136⁰
X   Y

Sum

x

m∠V

4)

D

E

Sum

x

m∠

7)

F $(x + 36)^0$ 132⁰   E

A 125⁰   89⁰ D

$(x + 43)^0$
B $(x + 40)^0$
                C
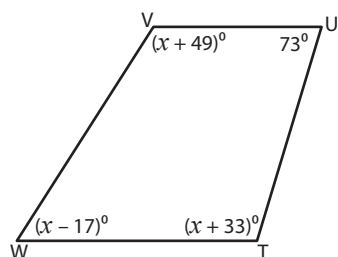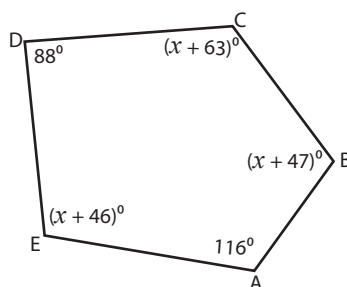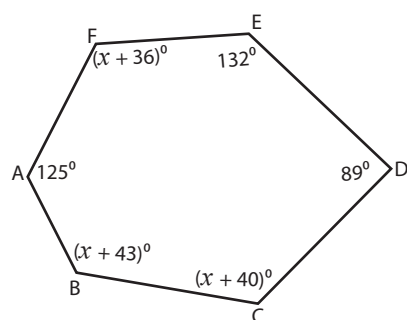
Sum of the interior angles = _____

x = _____ ; m∠B = _____ ;

m∠C = _____ ; m∠F = _____

8)

R
S 115⁰ $(x + 37)^0$
                    127⁰ Q

T $(x + 19)^0$

$(x + 5)^0$ P

125⁰   142⁰
U   V
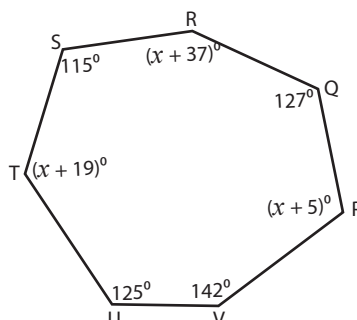
Sum of the interior angles = _____

x = _____ ; m∠P = _____ ;

m∠R = _____ ; m∠T = _____

9)

W

$(x - 13)^0$

X 147⁰

134⁰ V

x^0 $(x + 20)^0$
Y   Z

Sum of the interior angles = _____

x = _____ ; m∠W = _____ ;

m∠Y = _____ ; m∠Z = _____