Angles in Polygons
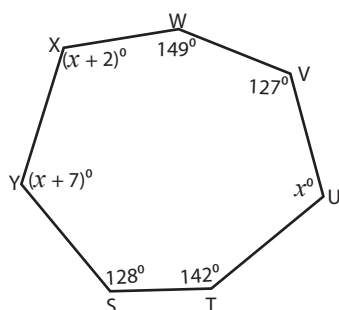
Find the measures of the indicated angles.
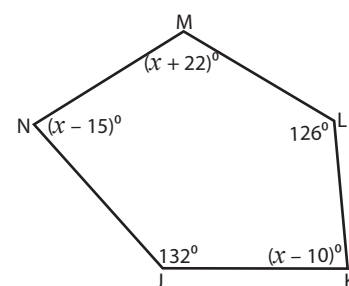
1)

W
149°
X $(x + 2)°$
127° V
Y $(x + 7)°$
$x°$ U
128° 142°
S T

2)

F E C
120° $(x + 56)°$
A $(x + 45)°$
88° D
127°
$(x + 44)°$
B C

3)

M
$(x + 22)°$
N $(x − 15)°$
126° L
132° $(x − 10)°$
J K

Sum _____

x _____ ;

m∠X _____

4)

U

L

Sum _____

x _____ ;

m∠_ _____

7)

Y
$x°$
Z 94°
$(x − 2)°$ X
$(x − 10)°$
V
65°
W

8)

S R
84°
$(x − 15)°$
$(x + 18)°$
Q
$(x − 27)°$
P

9)

E
$(x + 32)°$
F
136°
95° D
$(x + 56)°$ C
G $(x − 6)°$
159° 128°
H B
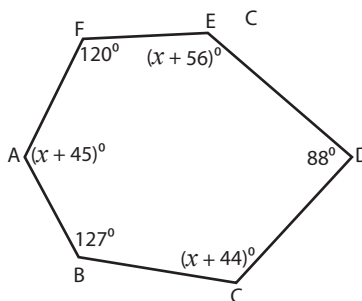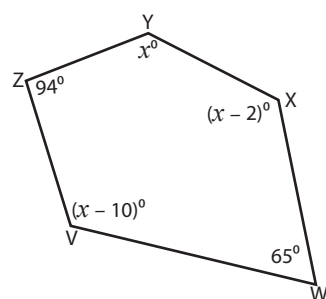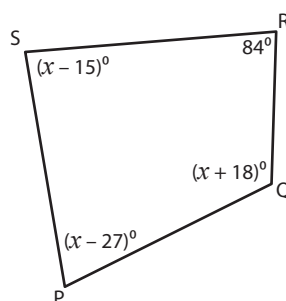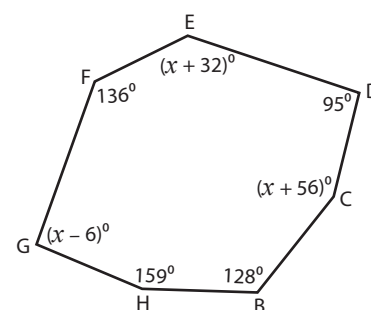
Sum of the interior angles = _____

x = _____ ; m∠V = _____ ;

m∠X = _____ ; m∠Y = _____

Sum of the interior angles = _____

x = _____ ; m∠P = _____ ;

m∠S = _____ ; m∠Q = _____

Sum of the interior angles = _____

x = _____ ; m∠E = _____ ;

m∠C = _____ ; m∠G = _____