Name : _____

Triangle - Exterior Angles

A) Solve for x in each triangle and find the measure of the indicated angle.
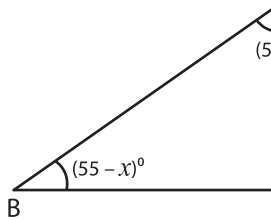
1)

X

V

$(28 + 6x)^0$

$(-9 + 7x)^0$

$(x + 5)^0$ U

W

$x =$ _____

$m\angle U =$ _____

2)

S

$(31 + 9x)^0$

$(4x + 1)^0$ R

Q

$(10x + 59)^0$

X

3)

$(5$

$(55 - x)^0$

B

$x =$ _____

$m\angle BCD =$ _____

X

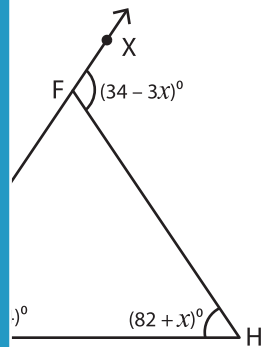F $(34 - 3x)^0$

$)^0$ $(82 + x)^0$ H
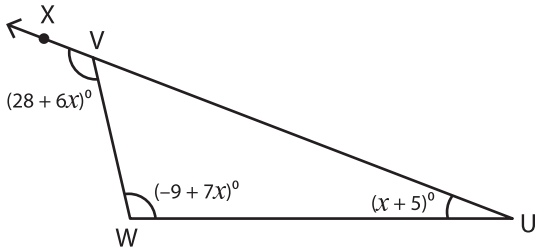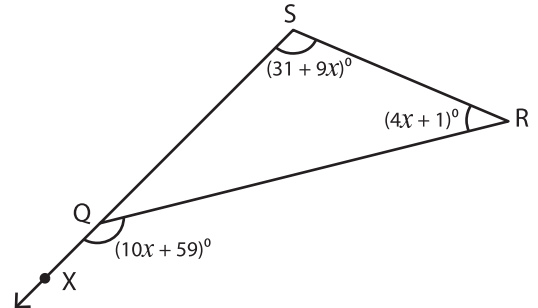
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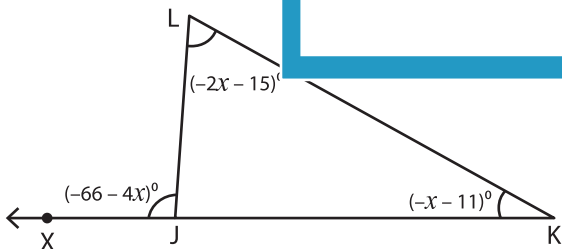
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B) Solve for x in each tri ... angles.

5)

L

$(-2x - 15)^0$

$(-66 - 4x)^0$

$(-x - 11)^0$

X J K

$x =$ _____

$m\angle XJL =$ _____ ; $m\angle K =$ _____

$m\angle LJK =$ _____ ; $m\angle L =$ _____

N

$(-x + 91)^0$

$(x + 8)^0$

L M

$(9x)^0$

X

$x =$ _____

$m\angle LMX =$ _____ ; $m\angle N =$ _____

$m\angle NML =$ _____ ; $m\angle L =$ _____