Name : _____

Sides of a Quadrilateral

Solve for x and find the indicated side lengths.

**1)**

U (25 − x) ft T
(4x − 5) ft   (3x + 1) ft
R (13 + x) ft S

Perimeter = 76 ft ; x = _____

UT = _____ ; TS = _____

SR = _____ ; UR = _____

2)

$\left(\frac{x}{3}\right)$ in

A   D
(19 − x) in   (7x − 80) in
B (5x − 53) in C

Perimeter = 22 in ; x = _____

3)

T (2x − 87) yd U
(−39 + x) yd   (x − 39) yd
W (x − 16) yd V

Perimeter = 174 yd ; x = _____

U = _____ ; UV = _____

V = _____ ; TW = _____

4)

F (3x − 57) in
(x − 23)   (2x − 23) in
E
(40 − x) in
H
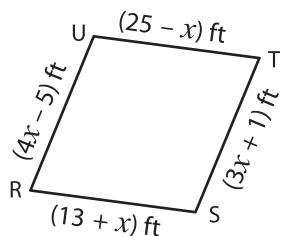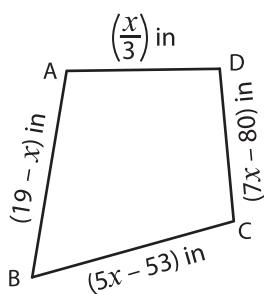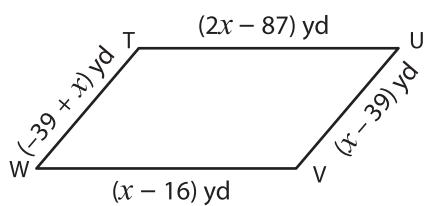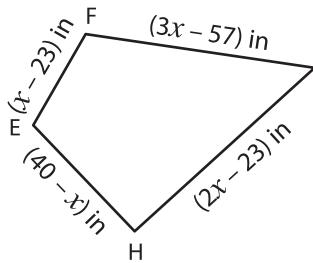
Perimeter = 82 in ; x = _____

EF = _____ ; FG = _____

GH = _____ ; EH = _____

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L
(30 + 7x) ft   (−2x − 1) ft
K   M
(8x + 39) ft   (6 + x) ft
N

Perimeter = 18 ft ; x = _____

L = _____ ; LM = _____

N = _____ ; KN = _____

7)

W (x − 32) yd X
(x − 27) yd   (2x − 70) yd
Y
Z (49 − x) yd
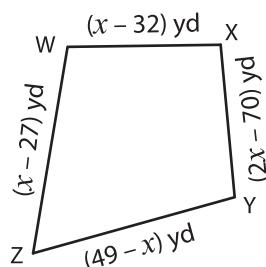
Perimeter = 34 yd ; x = _____

WX = _____ ; XY = _____

YZ = _____ ; WZ = _____

(60 − x) ft   (3x − 20) ft
S   R
(2x) ft

Perimeter = 160 ft ; x = _____

PQ = _____ ; QR = _____

RS = _____ ; PS = _____
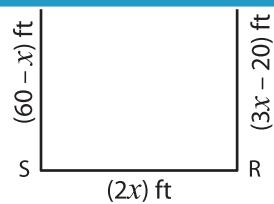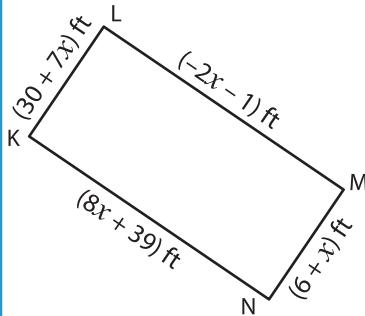
U
(x − 26) in   (x − 13) in
V
W (65 − x) in X $\left(\frac{x}{6}\right)$ in
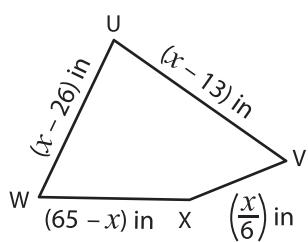
Perimeter = 82 in ; x = _____

UV = _____ ; VX = _____

WX = _____ ; UW = _____