Name : _____

# Perimeter of a Kite

Solve for $x$ and find the indicated side lengths of each kite.

1)

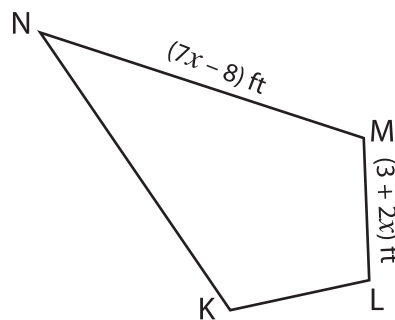

$(10x + 1)$ in

$(6x)$ in

Perimeter = 226 in

$x =$ _____

EF = _____

GH = _____

2)



$(7x – 8)$ ft

$(3 + 2x)$ ft

3)



$(x + 12)$ yd

$(6x – 13)$ yd

Perimeter = 152 yd

$x =$ _____

QR = _____

PS = _____

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4)



$(3x)$ ft

$(x + 15)$ ft
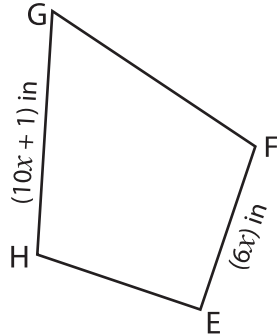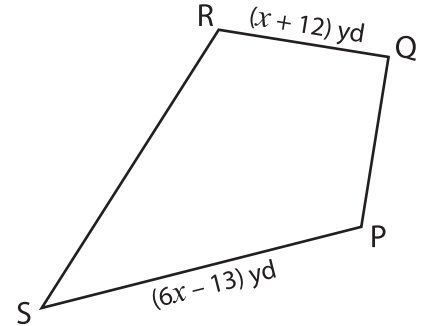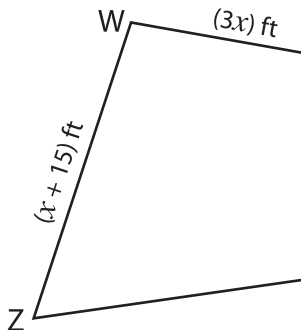
Perimeter = 78 ft

$x =$ _____

WZ = _____

XW = _____

UV = _____

SV = _____

$(4x – 20)$ in

$(5x – 24)$ in

Perimeter = 182 in

$x =$ _____

BC = _____

AB = _____

7)   The side lengths of a kite are $(6x – 8)$ feet and $(x)$ feet. If the perimeter is 124 feet, determine the value of $x$ and the side lengths of the kite?

_____