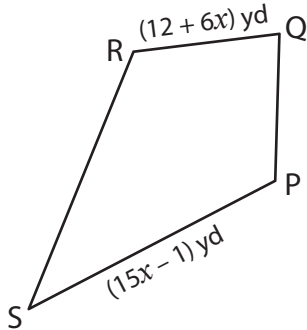


## Perimeter of a Kite

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

1)



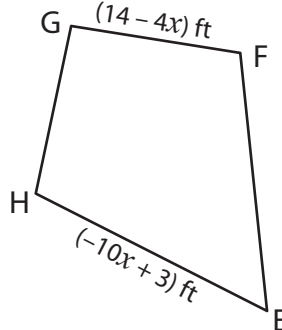
Perimeter = 232 yd

$x =$  \_\_\_\_\_

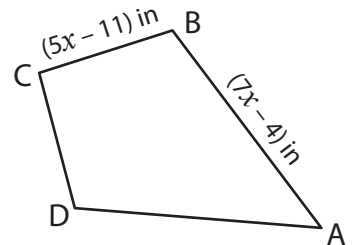
PS = \_\_\_\_\_

QR = \_\_\_\_\_

2)



3)



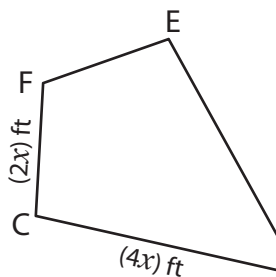
Perimeter = 186 in

$x =$  \_\_\_\_\_

AB = \_\_\_\_\_

BC = \_\_\_\_\_

4)



Perimeter = 72 ft

$x =$  \_\_\_\_\_

FC = \_\_\_\_\_

CD = \_\_\_\_\_

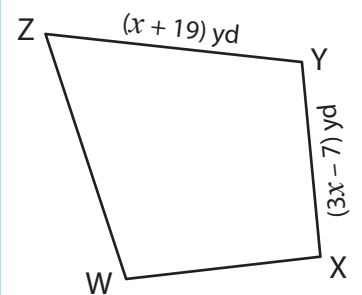
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Perimeter = 104 yd

$x =$  \_\_\_\_\_

YZ = \_\_\_\_\_

XY = \_\_\_\_\_

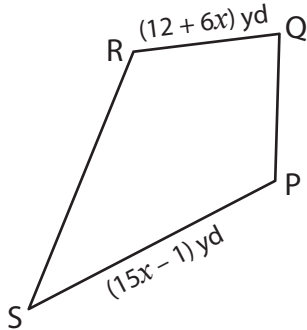
7) The side lengths of a kite are  $(4x + 1)$  inches and  $(7x - 2)$  inches. If the perimeter is 42 inches, what is the value of  $x$  and the side lengths of the kite?

\_\_\_\_\_

**Perimeter of a Kite**

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

1)



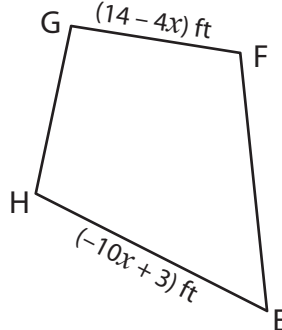
Perimeter = 232 yd

$x =$  5

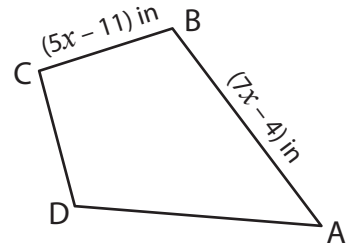
PS = 74 yd

QR = 42 yd

2)



3)



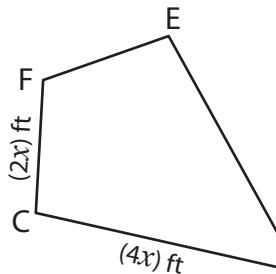
Perimeter = 186 in

$x =$  9

AB = 59 in

BC = 34 in

4)



Perimeter = 72 ft

$x =$  6

FC = 12 ft

CD = 24 ft

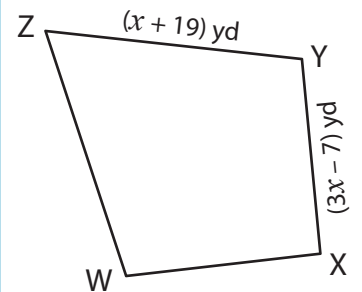
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Perimeter = 104 yd

$x =$  10

YZ = 29 yd

XY = 23 yd

7) The side lengths of a kite are  $(4x + 1)$  inches and  $(7x - 2)$  inches. If the perimeter is 42 inches, what is the value of  $x$  and the side lengths of the kite?

**$x = 2, 9$  inches and  $12$  inches**