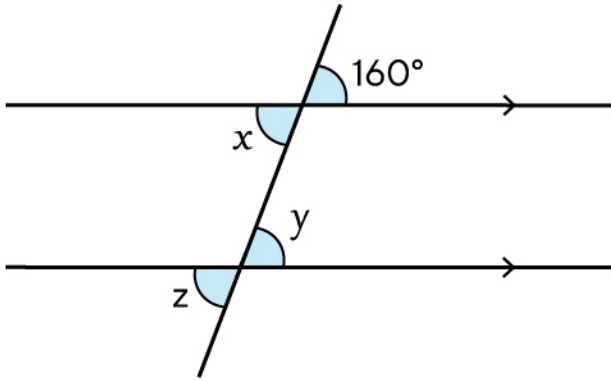# Angles Between Parallel lines

Determine the values of the angles and state the reasons.
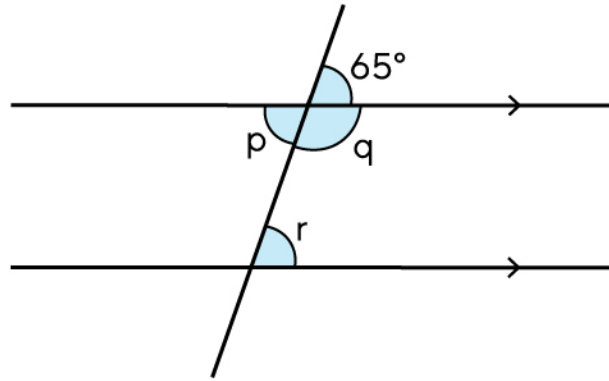

Reasons

x = _____ _____

y = _____ _____

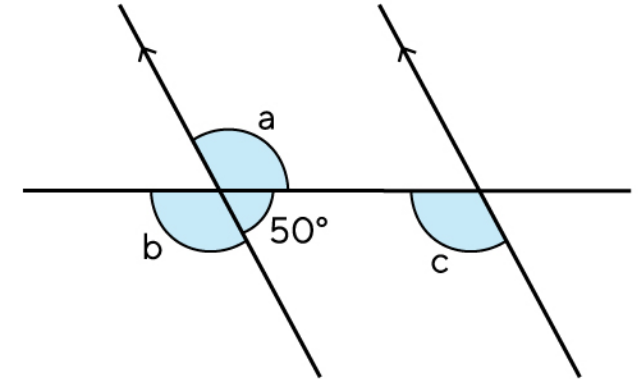z = _____ _____

Reasons

p = _____ _____

q = _____ _____

r = _____ _____

Reasons

a = _____ _____

b = _____ _____

c = _____ _____
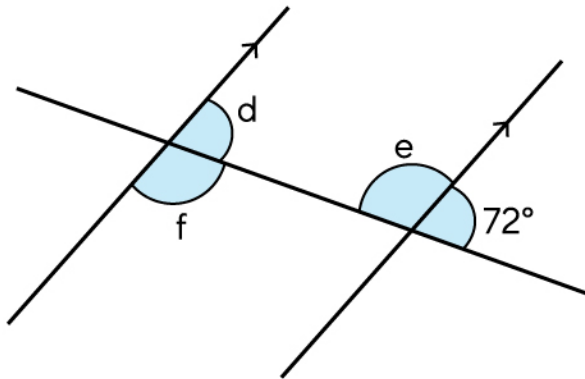
Reasons

d = _____ _____

e = _____ _____

f = _____ _____
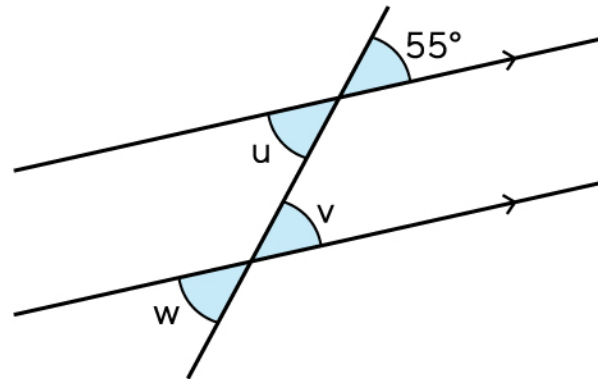
Reasons

u = _____ _____

v = _____ _____

w = _____ _____
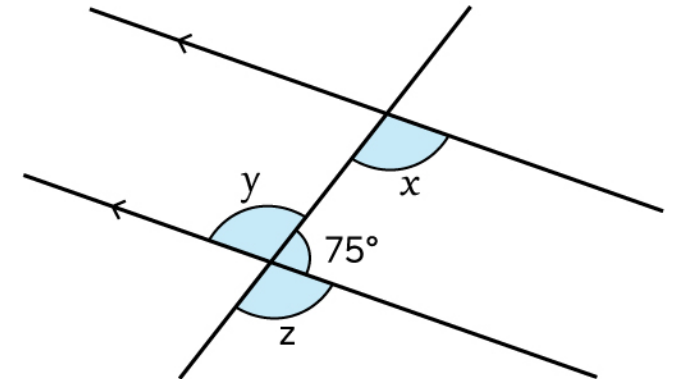
Reasons

x = _____ _____

y = _____ _____

z = _____ _____

Angles Between Parallel lines

Answers

160°

x

y

z
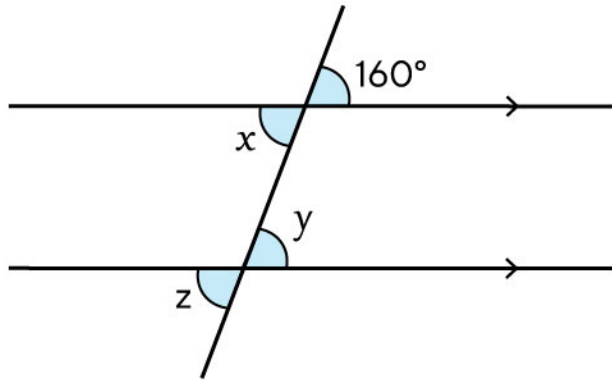
Reasons

x = 160°   Vertically opposite angles

y = 160°   Corresponding angles

z = 160°   Vertically opposite angles

65°

p   q

r
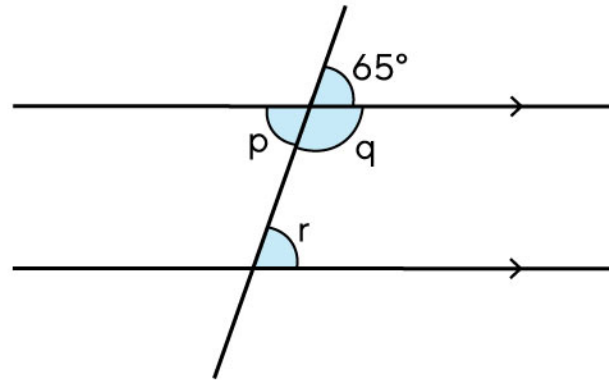
Reasons

p = 65°   Vertically opposite angles

q = 115°   Linear pair

r = 65°   Co-interior angles

a

b   50°

c
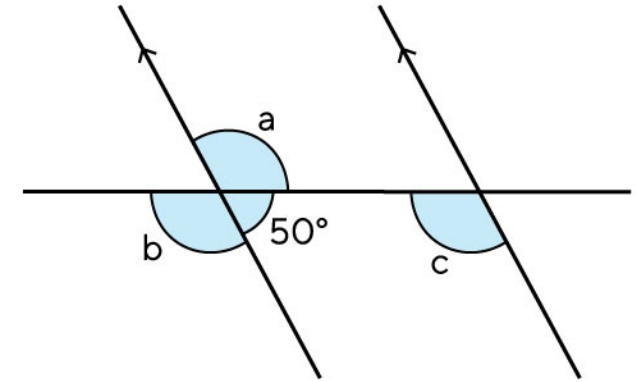
Reasons

a = 130°   Linear pair

b = 130°   Vertically opposite angles

c = 130°   Corresponding angles

d

f

e

72°
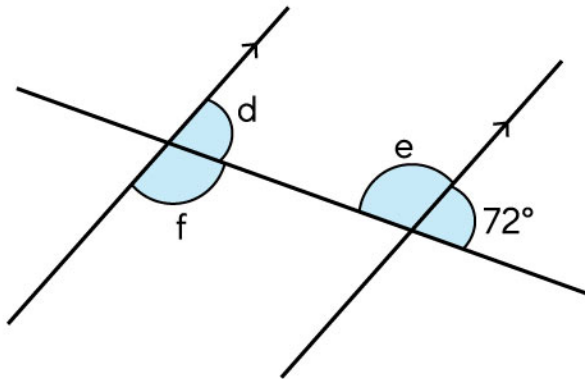
Reasons

d = 72°   Corresponding angles

e = 108°   Co-interior angles

f = 108°   Alternate interior angles

55°

u

v

w
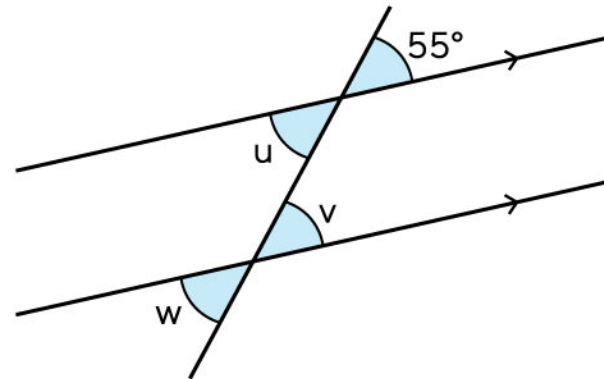
Reasons

u = 55°   Vertically opposite angles

v = 55°   Alternate interior angles

w = 55°   Vertically opposite angles

y   x

75°

z
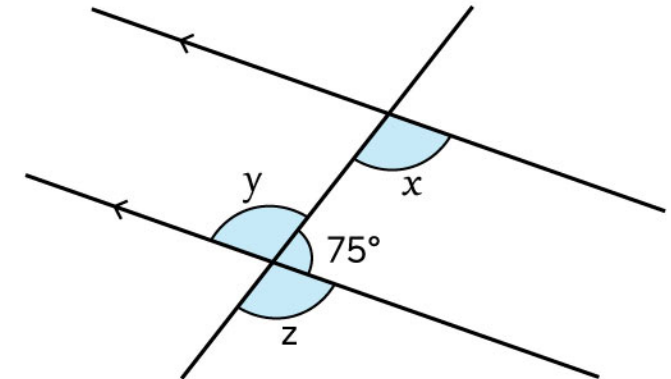
Reasons

x = 105°   Co-interior angles

y = 105°   Alternate interior angles

z = 105°   Vertically opposite angles