

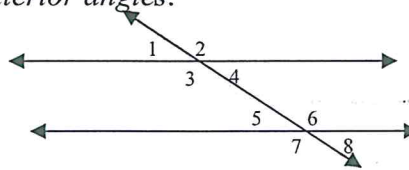
Name _____

IDENTIFYING ANGLES #1

Directions: For each set of parallel lines, name the pairs of *corresponding angles*, pairs of *vertical angles*, pairs of *alternate interior angles*, and pairs of *alternate exterior angles*.

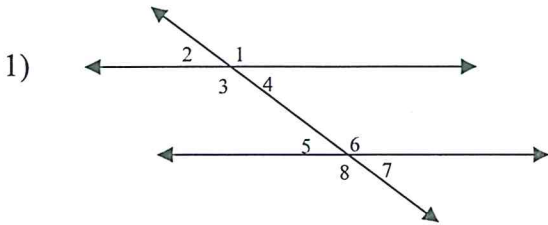
corresponding: 1&5, 2&6, 3&7, 4&8

vertical: 1&4, 2&3, 5&8, 6&7

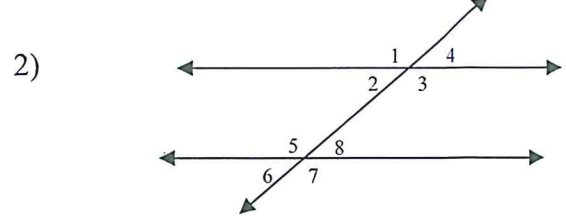


alt. interior: 3&6, 4&5

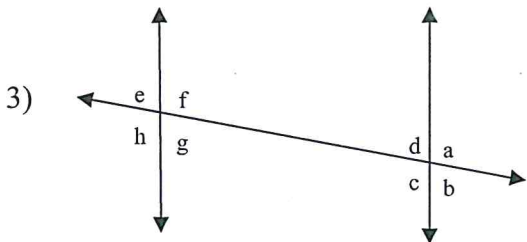
alt. exterior: 1&8, 2&7



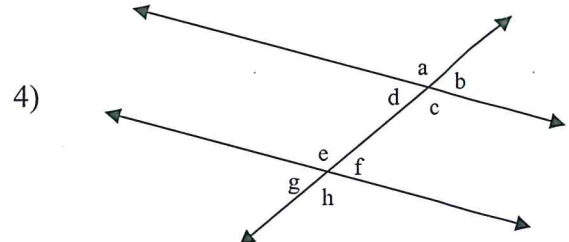
Corresponding: 1-6, 2-5, 3-8, 4-7
 Opposite/Vertical: 1-3, 2-4, 5-7, 6-8
 Alt. Interior: 3-6, 4-5
 Alt. Exterior: 1-8, 2-7



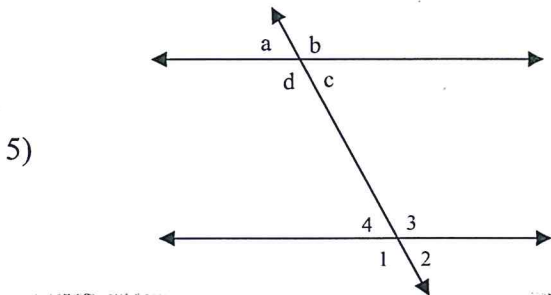
Corresponding: 1-5, 2-6, 3-7, 4-8
 Opposite/Vertical: 1-3, 2-4, 5-7, 8-6
 Alt. Interior: 2-8, 3-5
 Alt. Exterior: 1-7, 4-6



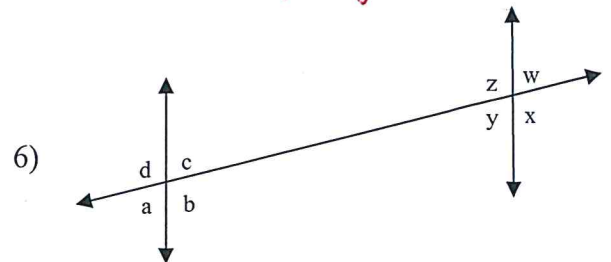
Corresponding: a-f, b-g, c-h, d-e
 Opposite/Vertical: a-c, b-d, e-g, f-h
 Alt. Interior: c-f, d-g
 Alt. Exterior: a-h, b-e



Corresponding: a-e, b-f, c-h, d-g
 Opposite/Vertical: a-c, b-d, e-h, f-g
 Alt. Interior: c-e, d-f
 Alt. Exterior: a-h, b-g



Corresponding: a-4, b-3, c-2, d-1
 Opposite/Vertical: a-c, b-d, 1-3, 2-4
 Alt. Interior: d-3, c-4
 Alt. Exterior: a-2, b-1

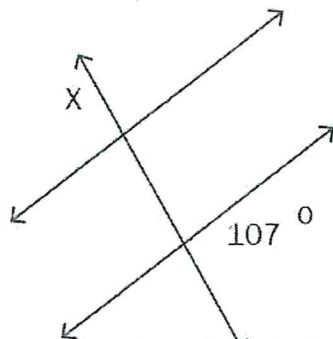


Corresponding: a-y, b-x, c-w, d-z
 Opposite/Vertical: a-c, b-d, w-y, x-z
 Alt. Interior: b-2, c-y
 Alt. Exterior: a-w, d-x

ANSWER KEY

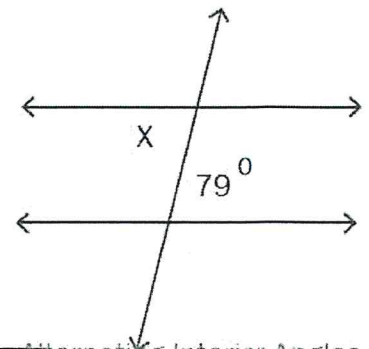
Find the value of x .

1)



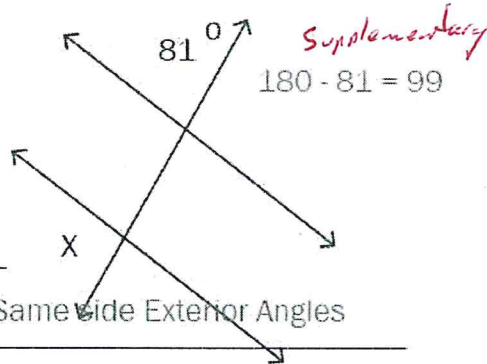
$x = \underline{107}$
Because Alternating Exterior Angles

2)



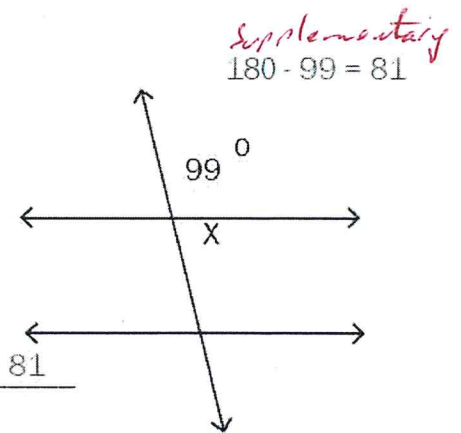
$x = \underline{79}$
Because Alternating Interior Angles

3)



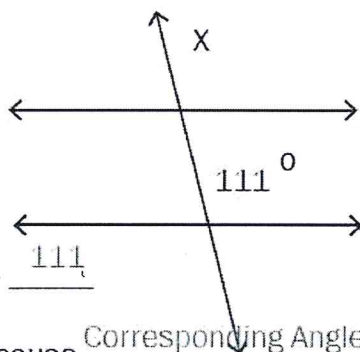
$x = \underline{99}$
Because Same Side Exterior Angles

4)



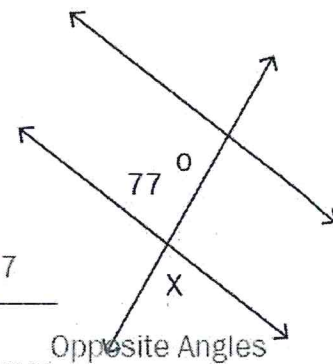
$x = \underline{81}$
Because Adjacent Angles (Linear Angles)

5)



$x = \underline{111}$
Because Corresponding Angles

6)



$x = \underline{77}$
Because Opposite Angles