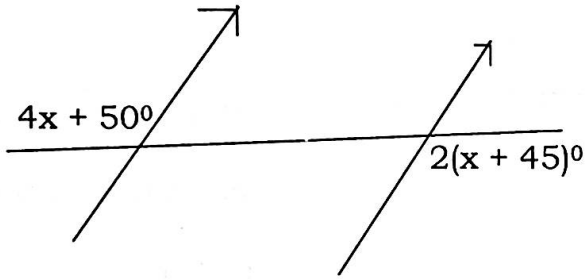
d)



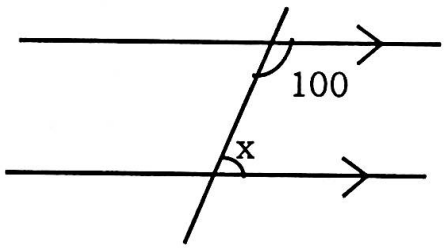
Lesson 49: Finding angles and values using property of co-angles of parallel lines.

- Co-interior angles are two angles which add up to 180⁰. They lie in same plane of transversal line.

Steps taken:

- ✓ *Identify the two co-angles.*
- ✓ *Form the equation correctly.*
- ✓ *Solve the equation accurately.*

Example 1: Find angle marked x.

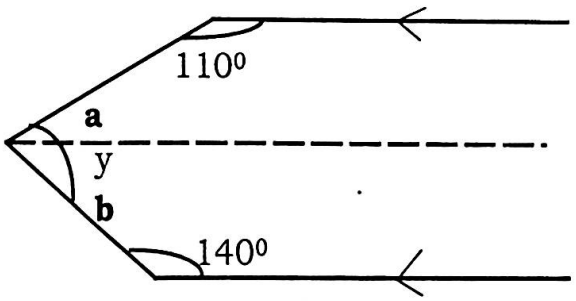


$x + 100^0 = 180^0$(co-interior angle)

$x + 100^0 - 100^0 = 180^0 - 100^0$

$\mathbf{x = 80^0}$

Example 2: Find angle marked y.



$a + 110^0 = 180^0$(co- interior ∠s)

$a + 110^0 + 110^0 = 180^0 - 110^0$

$= 70^0$

$b + 140^0 = 180^0$(co- interior s)

$b + 140^0 - 140^0 = 180^0 - 140^0$

$= 40^0$

$y = a + b$

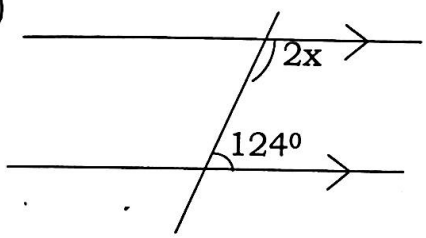
$= 70^0 + 40^0$

$= 110^0$

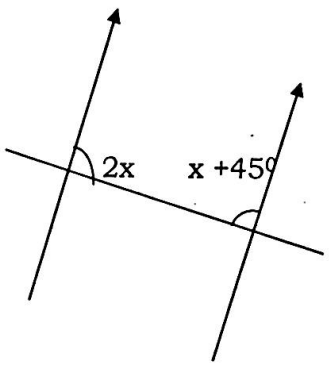
Activity.

1. ***Solve for the unknown.***

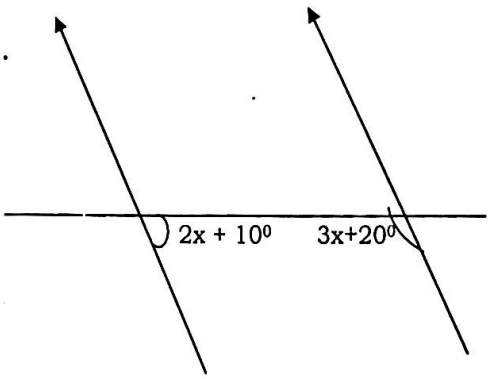
a)



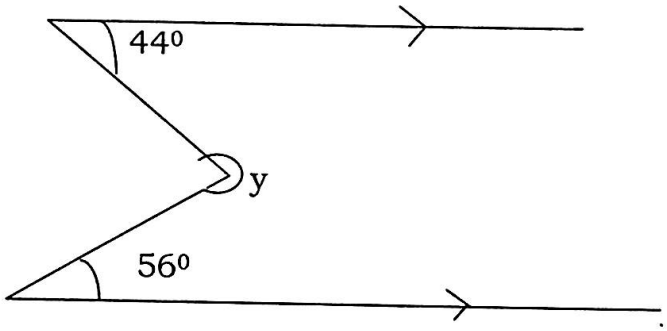
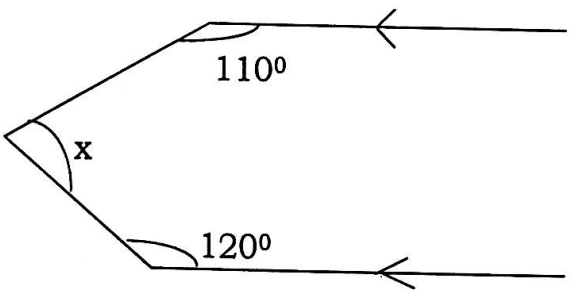
b)



c.



d).



e)