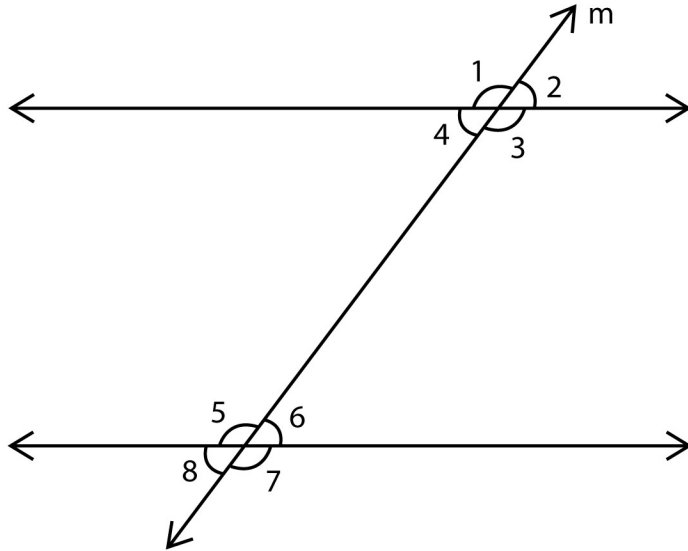


Exercise on Angles Formed by a Transversal

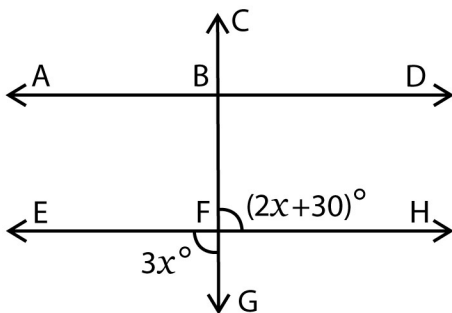
A) A set of parallel lines is cut by the transversal m . $\angle 2 = 45^\circ$. Find the measures of the remaining angles.



- 1) $m\angle 1 =$ _____
- 2) $m\angle 3 =$ _____
- 3) $m\angle 4 =$ _____
- 4) $m\angle 5 =$ _____
- 5) $m\angle 6 =$ _____
- 6) $m\angle 7 =$ _____
- 7) $m\angle 8 =$ _____

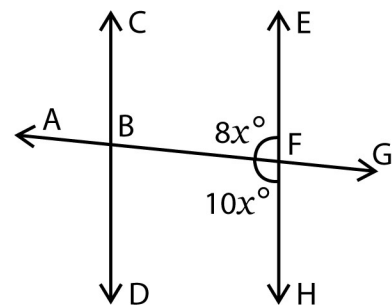
B) Solve for x and find the measure of each marked angle.

①



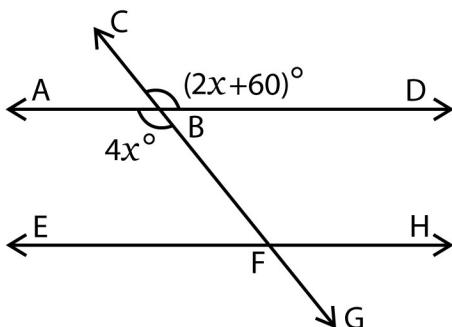
$x =$ _____
 $\angle EFG =$ _____ $\angle HFC =$ _____

②



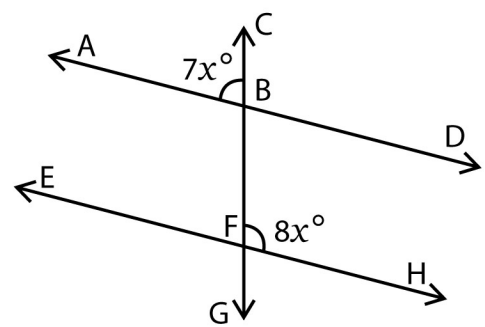
$x =$ _____
 $\angle AFH =$ _____ $\angle AFE =$ _____

③



$x =$ _____
 $\angle ABG =$ _____ $\angle CBD =$ _____

④

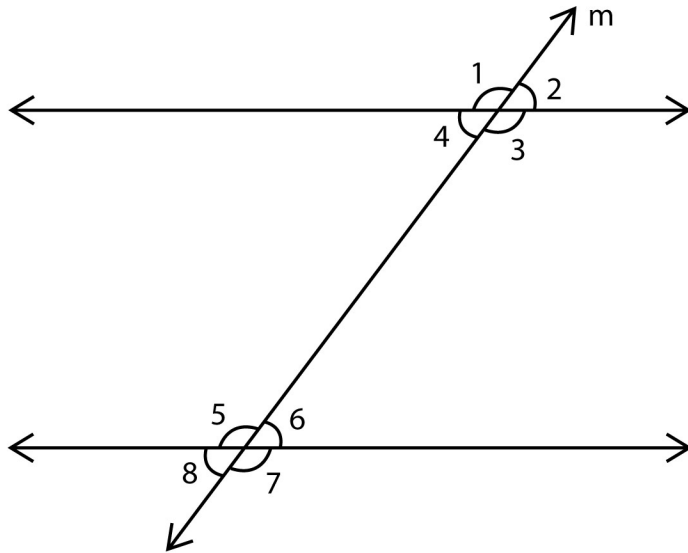


$x =$ _____
 $\angle CBA =$ _____ $\angle CFH =$ _____

Exercise on Angles Formed by a Transversal

A)

Answers



1) $m\angle 1 = \underline{135^\circ}$

2) $m\angle 3 = \underline{135^\circ}$

3) $m\angle 4 = \underline{45^\circ}$

4) $m\angle 5 = \underline{135^\circ}$

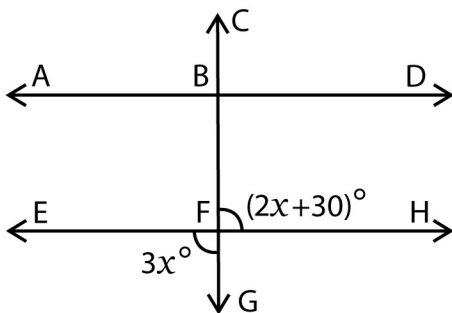
5) $m\angle 6 = \underline{45^\circ}$

6) $m\angle 7 = \underline{135^\circ}$

7) $m\angle 8 = \underline{45^\circ}$

B)

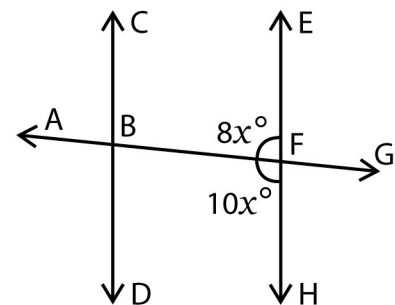
①



$x = \underline{30^\circ}$

$\angle EFG = \underline{90^\circ}$ $\angle HFC = \underline{90^\circ}$

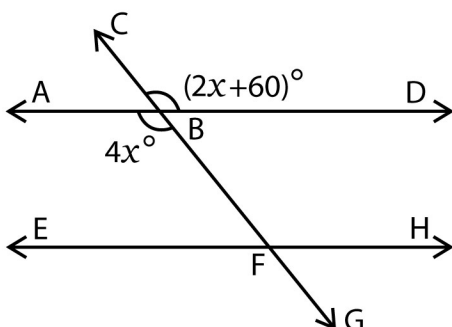
②



$x = \underline{10^\circ}$

$\angle AFH = \underline{100^\circ}$ $\angle AFE = \underline{80^\circ}$

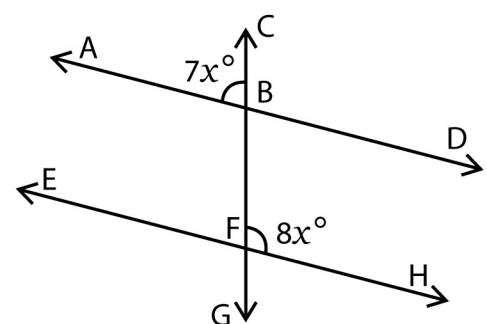
③



$x = \underline{30^\circ}$

$\angle ABG = \underline{120^\circ}$ $\angle CBD = \underline{120^\circ}$

④



$x = \underline{12^\circ}$

$\angle CBA = \underline{84^\circ}$ $\angle CFH = \underline{96^\circ}$