

Worksheet

Date: 21/06/24

① Product of seven integers is a negative integer. Then which of the following option is correct?

- (a) 3 integers are negative, 4 integers are positive
- (b) 4 integers are negative, 3 integers are positive
- (c) 2 integers are negative, 5 integers are positive
- (d) 1 integer is positive, 6 integers are negative

② True/False :

The difference of two ~~the~~ positive integers cannot be negative. ☐

③ Simplify :

$$\{(-60) \div (+5) \times (-3)\} + \{(+21) \div (-7)\}$$

(101 times) = _____

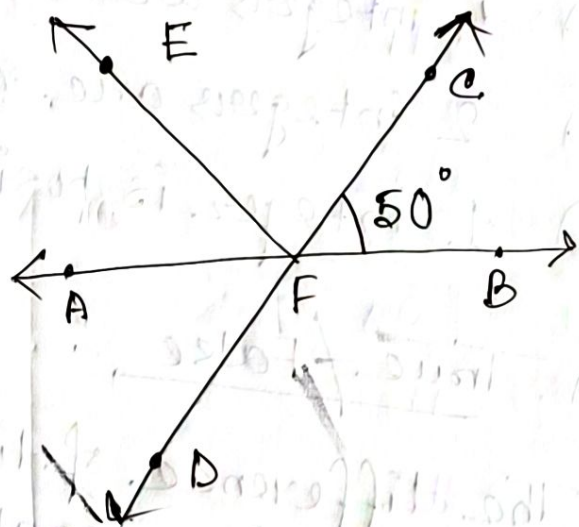
④ $(-1) \times (-1) \times (-1) \times \dots \dots (101 \text{ times}) = \underline{\hspace{2cm}}$

⑤ Which number is its own multiplicative inverse?

⑥ ~~Use~~ Use distributive property to solve the following : $9999 \times (-359)$

- ⑦ Snigdha was told to find the product of 113 and 15. But she multiplied 113 with the additive inverse of 15. Find the difference between the two products.

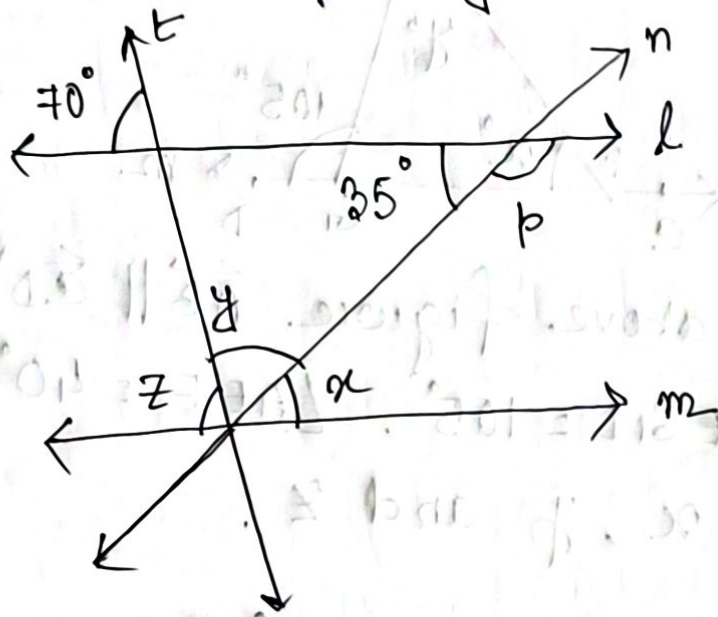
- ⑧ In the adjoining figure, straight lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ intersect at F. If $\angle EFA = \angle AFD$ and $\angle CFB = 50^\circ$, find $\angle EFC$.



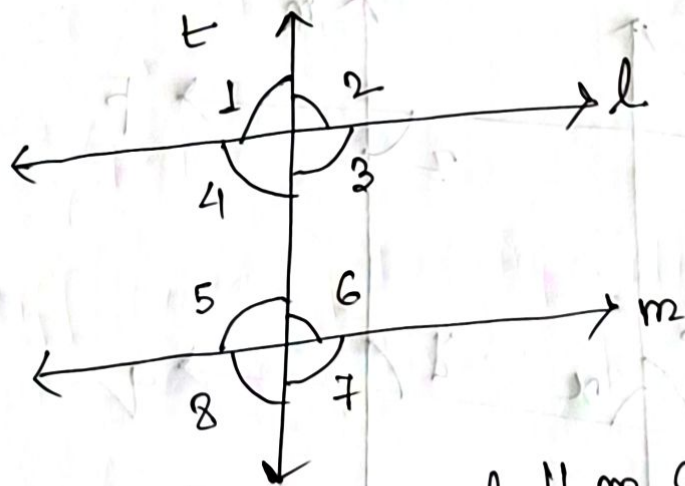
- ⑨ If two angles are supplementary angles and one angle is 15° more than twice the other, find the angles.

⑩
$$\left(\frac{1}{2} + \frac{1}{3}\right) \div \left(\frac{1}{4} - \frac{1}{6}\right) - \left[8 - \left\{5\frac{1}{3} - \left(3 - 2\frac{1}{2}\right)\right\}\right]$$

- ⑪ In the adjoining figure, $l \parallel m$
Find the values of x , y , z and p .



⑫



In the above figure, $l \parallel m$ and t is transversal,
then which of the following option is correct?

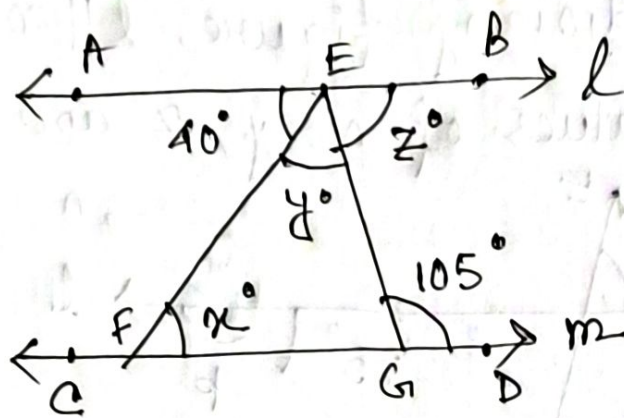
(a) $\angle 1 + \angle 5 = 180^\circ$

(b) $\angle 3 + \angle 6 = 180^\circ$

(c) $\angle 2 + \angle 8 = 180^\circ$

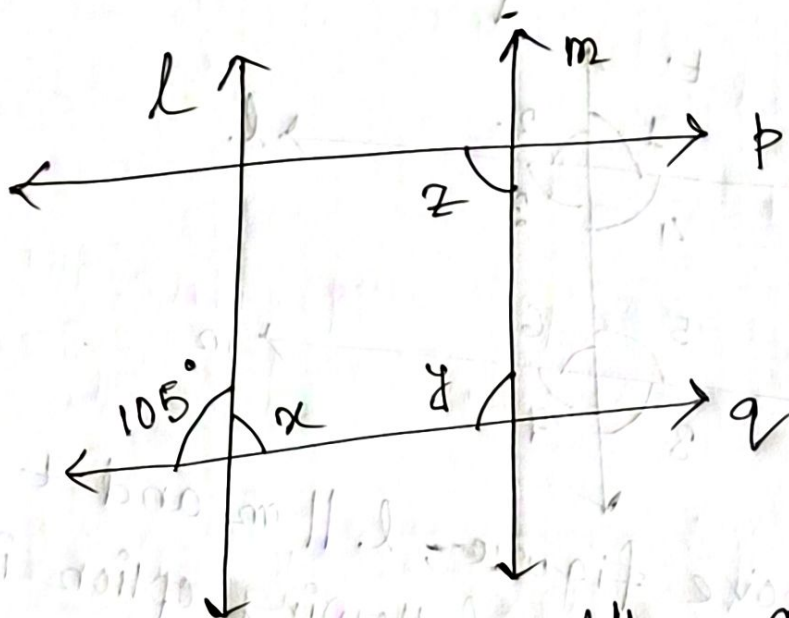
(d) $\angle 1 + \angle 3 = 180^\circ$

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In the above figure $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ and $\angle EGD = 105^\circ$, $\angle AEF = 40^\circ$, find x , y and z .

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In the above figure, $l \parallel m$ and $p \parallel q$, find the values of x , y and z .

15 In the adjoining figure, $PQ \parallel RS$, find the value of $(2x + 3y)$

