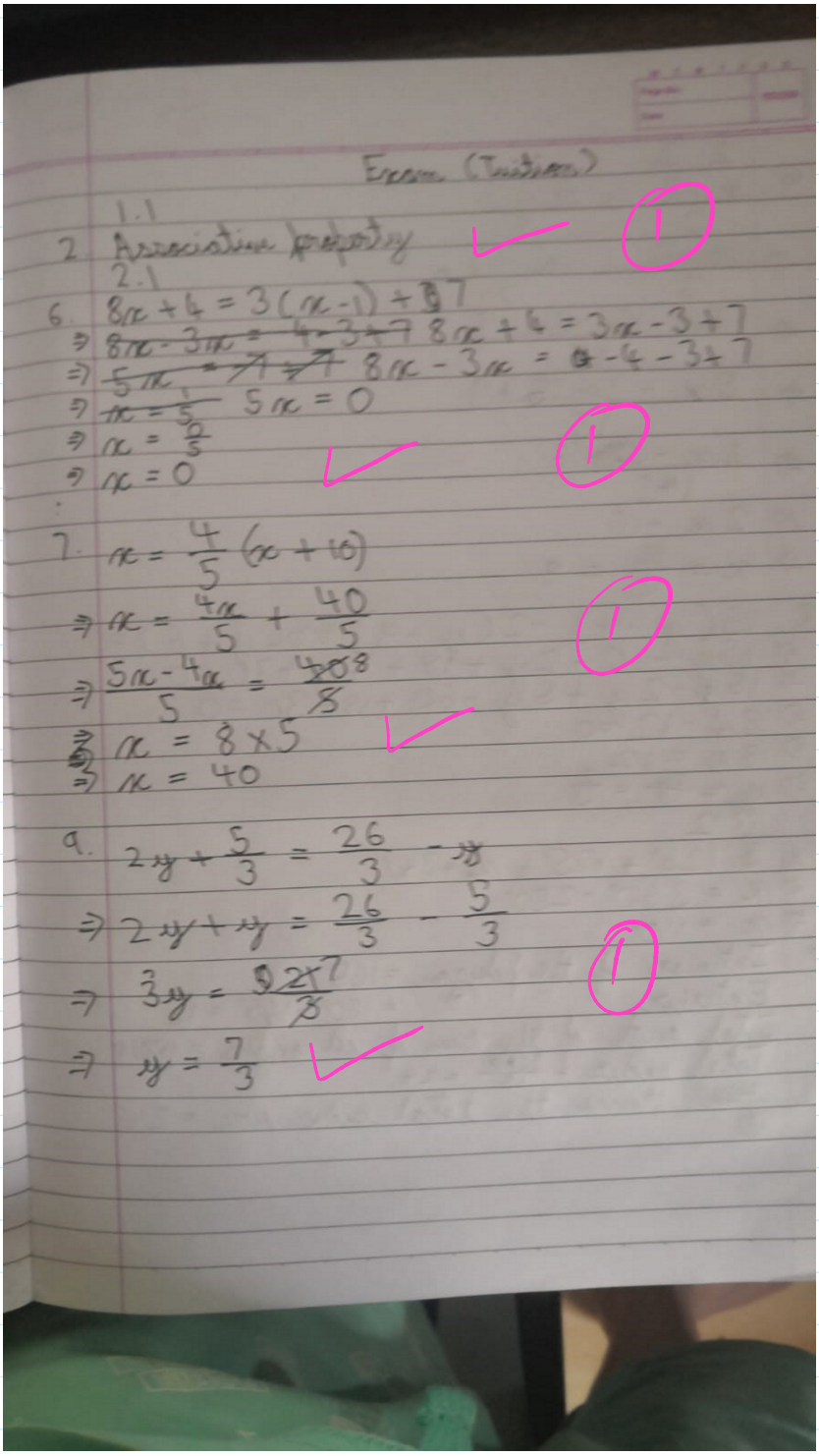
31 March 2024 16:49

Exercise	Question
1.1	2
2.1	6, 7, 9
2.2	4, 8
3.2	1(a), 4
3.3	2(iv), 7
3.4	1(e, f, g, h) with explanation



Exam (Tuition)

1.1

2. Associative property ✓ 1

2.1

6. $8x + 4 = 3(x - 1) + 7$

$\Rightarrow 8x - 3x = 4 - 3 + 7$ $8x + 4 = 3x - 3 + 7$

$\Rightarrow 5x = 1 + 7$ $8x - 3x = 4 - 3 + 7$

$\Rightarrow x = \frac{8}{5}$ $5x = 8$ ✓ 1

$\Rightarrow x = 0$

7. $x = \frac{4}{5}(x + 10)$

$\Rightarrow x = \frac{4x}{5} + \frac{40}{5}$ 1

$\Rightarrow \frac{5x - 4x}{5} = \frac{40}{8}$

$\Rightarrow x = 8 \times 5$ ✓

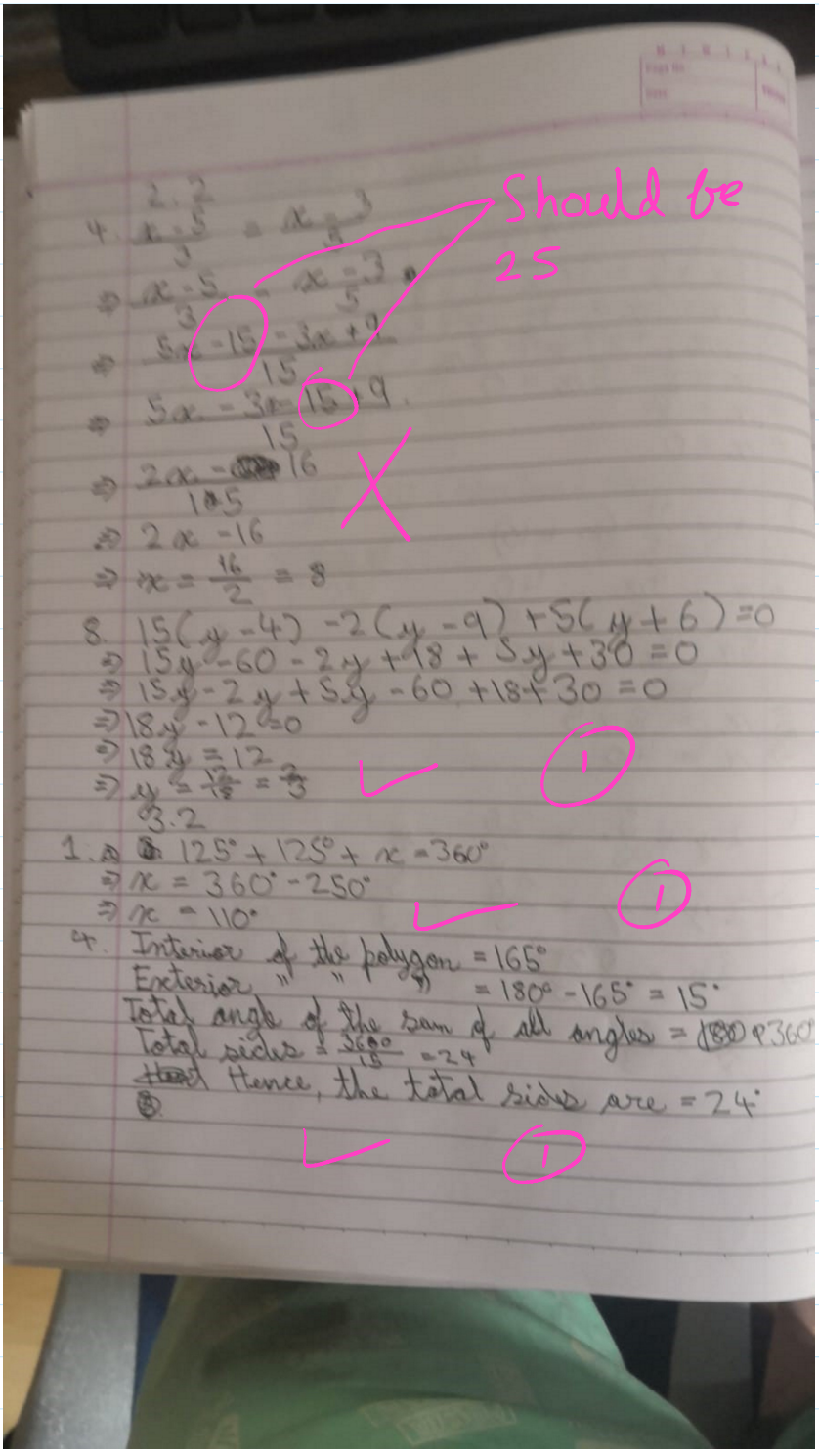
$\Rightarrow x = 40$

9. $2y + \frac{5}{3} = \frac{26}{3} - y$

$\Rightarrow 2y + y = \frac{26}{3} - \frac{5}{3}$ 1

$\Rightarrow 3y = \frac{21}{3}$

$\Rightarrow y = \frac{7}{3}$ ✓



4. $\frac{x-5}{3} = \frac{x-3}{5}$

$\Rightarrow \frac{x-5}{3} = \frac{x-3}{5}$

$\Rightarrow \frac{5x-15}{15} = \frac{3x+9}{15}$

$\Rightarrow 5x-15 = 3x+9$

$\Rightarrow 2x = 16$

$\Rightarrow x = \frac{16}{2} = 8$

Should be 25

8. $15(y-4) - 2(y-9) + 5(y+6) = 0$

$\Rightarrow 15y - 60 - 2y + 18 + 5y + 30 = 0$

$\Rightarrow 15y - 2y + 5y - 60 + 18 + 30 = 0$

$\Rightarrow 18y - 12 = 0$

$\Rightarrow 18y = 12$

$\Rightarrow y = \frac{12}{18} = \frac{2}{3}$

3.2

1. $125^\circ + 125^\circ + x = 360^\circ$

$\Rightarrow x = 360^\circ - 250^\circ$

$\Rightarrow x = 110^\circ$

4. Interior of the polygon $= 165^\circ$

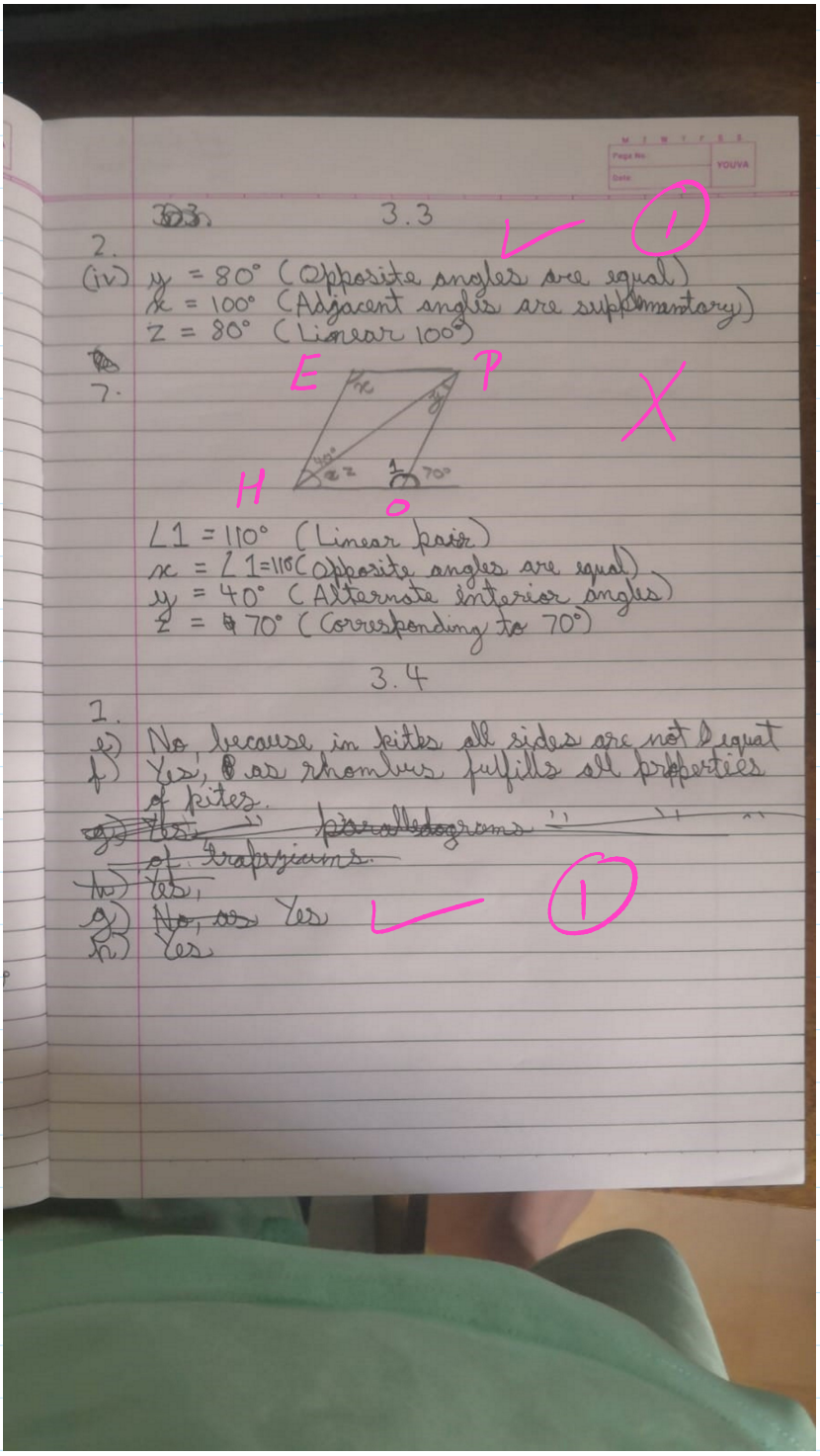
Exterior " " $= 180^\circ - 165^\circ = 15^\circ$

Total angle of the sum of all angles $= 360^\circ$

Total sides $= \frac{3600}{15} = 24$

Hence, the total sides are $= 24$

8.



3.3

2.

(iv) $y = 80°$ (Opposite angles are equal)
$x = 100°$ (Adjacent angles are supplementary)
$z = 80°$ (Linear $100°$)

7.

$\angle 1 = 110°$ (Linear pair)
$x = \angle 1 = 110°$ (Opposite angles are equal)
$y = 40°$ (Alternate interior angles)
$z = 70°$ (Corresponding to $70°$)

3.4

1.

i) No, because in kites all sides are not equal
ii) Yes, a rhombus fulfills all properties of kites.
~~iii) Yes, " parallelograms " " "~~
~~of trapeziums.~~
iv) Yes,
v) ~~No, as~~ Yes
vi) Yes.

1

$\angle EHO = 70°$ (Corresponding)
$40 + z = 70°$
$z = 30°$

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