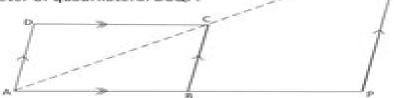
Question 2

- (a) Mr. Ravi borrows ₹ 16,000 for 2 years. The rate of interest for the two successive [3] years are 10% and 12% respectively. If he repays ₹ 5,600 at the end of first year, find the amount outstanding at the end of the second year.
- (b) Simplify: [3]
 - $\left(\frac{8}{27}\right)^{-\frac{1}{3}} \times \left(\frac{25}{4}\right)^{\frac{1}{2}} \times \left(\frac{4}{9}\right)^{0} + \left(\frac{125}{64}\right)^{\frac{1}{3}}$
- (c) In the given figure, ABCD is a parallelogram. AB is produced to P, such that [4] AB = BP and PQ is drawn parallel to BC to meet AC produced at Q. Given AB = 8 cm, AD = 5 cm, AC = 10 cm.
 - (i) Prove that point C is mid point of AQ.
 - (ii) Find the perimeter of quadrilateral BCQP.



Question 3

(a) Solve following pairs of linear equations using cross-multiplication method: [3]

$$5x - 3y = 2$$
$$4x + 7y = -3$$

(b) Without using tables, evaluate:

$$4 \tan 60^{\circ} \sec 30^{\circ} + \frac{\sin 31^{\circ} \sec 59^{\circ} + \cot 59^{\circ} \cot 31^{\circ}}{8 \sin^2 30^{\circ} - \tan^2 45^{\circ}}$$

[3]

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