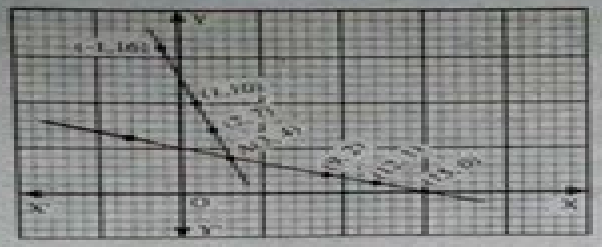


মনে করি, XOX' ও YOY' যথাক্রমে x-অক্ষ ও y অক্ষ এবং O মূলবিন্দু। উভয় অক্ষের ক্ষুদ্রতম বাহুর দৈর্ঘ্যকে একক ধরি। (−1, 16), (1, 10) ও (2, 7) বিন্দুগুলোকে ছক কাগজে স্থাপন ও যোগ করে সমীকরণ (i) দ্বারা নির্দেশিত সরলরেখাটি পাই।

আবার, (− 3, 6), (12, 1) ও (9, 2) বিন্দুগুলোকে ছক কাগজে স্থাপন ও যোগ করে সমীকরণ (ii) দ্বারা নির্দেশিত সরলরেখাটি পাই। এই সরলরেখা পূর্বোক্ত সরলরেখাকে A বিন্দুতে ছেদ করে। লেখচিত্র থেকে দেখা যায়, A বিন্দুর ভুজ ও এবং কোটি 4।

নির্ণেয় সমাধান, (x, y) = (3, 4)

জ্যামিতি অংশ

জ্যামিতি অংশের উপপাদ্য, সম্পাদ্য ও অনুসিদ্ধান্ত সম্পর্কিত প্রশ্নের সাজেশন্স অনুশীলন (অধ্যায়-৮, ৯ ও ১০)

১। **PQRS সামান্তরিকের PR এবং QS কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে।** ★ *[রাজশাহী বোর্ড-২০১৮]*

(ক) ∠PQR = 120° হলে, ∠QPS এর পূরক কোণের মান নির্ণয় কর। ২

(খ) প্রমাণ কর যে, OP = OR এবং OQ = OS. ৪

(গ) ∠PQR = 90° হলে প্রমাণ কর যে, PR = QS. ৪

সমাধান :

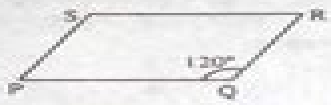
(ক) ∠P + ∠Q + ∠R + ∠S = 360°

বা, ∠P + ∠P + 120° + 120° = 360°

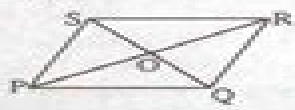
[∵ সামান্তরিকের বিপরীতকোণদ্বয় সমান]

বা, 2∠P = 120° ∴ ∠P = 60°

∴ ∠QPS এর পূরক কোণের মান 90° − 60° = 30°.



(খ) **বিশেষ নির্বচন :** PQRS সামান্তরিকের PR ও QS কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করেছে। প্রমাণ করতে হবে যে, OP = OR এবং OQ = OS।



প্রমাণ :

ধাপ	যথার্থতা
(১) PS ∥ QR এবং SQ তাদের ছেদক	
∴ ∠PSQ = ∠SQR	[একান্তর কোণ]
বা, ∠PSO = ∠OQR	
(২) আবার, PS ∥ QR এবং PR তাদের ছেদক	
∴ ∠SPR = ∠PRQ	[একান্তর কোণ]
বা, ∠SPO = ∠ORQ	
(৩) ΔPOS এবং ΔQOR-এ	
∠PSO = ∠OQR	[ধাপ (১) হতে]
∠SPO = ∠ORQ	[ধাপ (২) হতে]
এবং PS = QR	[কল্পনা]
∴ ΔPOS ≡ ΔQOR	[কোণ-বাহু-কোণ উপপাদ্য]
সুতরাং, OP = OR, OQ = OS (প্রমাণিত)	

(গ) **বিশেষ নির্বচন :** মনে করি, PQRS সামান্তরিকের ∠PQR = 90°। প্রমাণ করতে হবে যে, PR = QS

প্রমাণ :

ধাপ	যথার্থতা
(১) ∠Q = ∠S = 90°	[সামান্তরিকের বিপরীত কোণদ্বয় সমান]
(২) ∠P + ∠Q + ∠R + ∠S = 360°	[চতুর্ভুজের চার কোণের সমষ্টি 360°]
বা, ∠P + ∠R = 360° − 90° − 90°	[ধাপ ১. হতে]
বা, 2∠P = 180°	[∠P = ∠R]
∴ ∠P = ∠R = 90°	
(৩) ∠P = ∠Q = ∠R = ∠S = 90°	[ধাপ (১) ও (২) হতে]
(৪) ΔPQR ও ΔPQS এ,	
QR = PS	[সামান্তরিকের বিপরীত বাহুদ্বয় সমান]
∠PQR = ∠QPS	[ধাপ (৩) হতে]
PQ = PQ	[সাধারণ বাহু]
∴ ΔPQR ≡ ΔPQS	[বাহু-কোণ-বাহু সর্বসমতা]
∴ PR = QS (প্রমাণিত)	

২।

চিত্রে PQ ∥ SR এবং SP ∥ RQ ★ *[দিনাজপুর বোর্ড-২০১৮]*

(ক) একটি রম্বসের দুইটি কর্ণ যথাক্রমে 10 সেন্টিমিটার ও 24 সেন্টিমিটার। রম্বসের ক্ষেত্রফল নির্ণয় কর। ২

(খ) প্রমাণ কর যে, ST = TQ এবং PT = TR. ৪

(গ) QS = PR হলে প্রমাণ কর যে, PQRS একটি আয়ত। ৪

সমাধান : (ক) আমরা জানি,

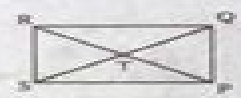
রম্বসের ক্ষেত্রফল $= \frac{1}{2} \times$ কর্ণদ্বয়ের গুণফল

$= \frac{1}{\cancel{2}_{1}} \times \cancel{10}^{5} \times 24$ বর্গসেন্টিমিটার

$= 120$ বর্গসেন্টিমিটার

(খ) সৃজনশীল ১(খ) নং দ্রষ্টব্য।

(গ) **বিশেষ নির্বচন :** মনে করি, PQRS চতুর্ভুজের PQ ∥ SR, SP ∥ RQ এবং QS = PR. প্রমাণ করতে হবে যে, PQRS একটি আয়ত



প্রমাণ :

ধাপ	যথার্থতা
(১) PQRS চতুর্ভুজে	
PQ ∥ SR এবং SP ∥ RQ	[কল্পনা]
∴ PQRS একটি সামান্তরিক	
(২) ΔSPQ ও ΔPQR এ	
SP = QR	[সামান্তরিকের বিপরীত বাহুদ্বয় সমান]
PQ = PQ	[সাধারণ বাহু]
QS = PR	[দেওয়া আছে]
∴ ΔSPQ ≡ ΔPQR	[বাহু-বাহু-বাহু সর্বসমতা]
∴ ∠SPQ = ∠PQR	
(৩) SP ∥ RQ এবং PQ তাদের ছেদক	
∠SPQ + ∠PQR = 2 সমকোণ	[ছেদকের একই পাশের অন্তঃস্থ কোণদ্বয় পরস্পর সম্পূরক]
বা, 2∠SPQ = 2 সমকোণ	
বা, ∠SPQ + ∠SPQ = 2 সমকোণ	[ধাপ ২ হতে]
বা, ∠SPQ = 1 সমকোণ	
∴ PQRS একটি আয়ত (প্রমাণিত)	

Jsc Math Suggestion Exam 2014

Liying Dong

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