

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

আবার, $(-3, 6)$, $(12, 1)$ ও $(9, 2)$ বিন্দুগুলোকে ছক কাগজে স্থাপন ও যোগ করে সঠীকরণ (ii) দ্বারা নির্দেশিত সরলরেখাটি পাই। এই সরলরেখা পূর্বোক্ত সরলরেখাকে A বিন্দুতে ছেন করে। সেখান থেকে দেখা যায়, A বিন্দুর ভূজ ও এবং কোটি 4।

নির্ণেয় সমাধান, $(x, y) = (3, 4)$

জ্যামিতি অংশ



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

১। PQRS সামান্তরিকের PR এবং QS কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেন করে। * [সাজেশন বোর্ড-২০১৮]

- (ক) $\angle PQR = 120^\circ$ হলে, $\angle QPS$ এর পূরক কোণের মান নির্ণয় কর। ২
(খ) প্রমাণ কর যে, $OP = OR$ এবং $OQ = OS$ । ৪
(গ) $\angle PQR = 90^\circ$ হলে প্রমাণ কর যে, $PR = QS$ । ৪

সমাধান :

(ক) $\angle P + \angle Q + \angle R + \angle S = 360^\circ$

বা, $\angle P + \angle P + 120^\circ + 120^\circ = 360^\circ$

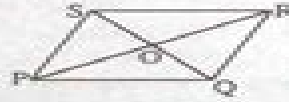
[$\because$ সামান্তরিকের বিপরীতকোণের সমান]

বা, $2\angle P = 120^\circ \therefore \angle P = 60^\circ$

$\therefore \angle QPS$ এর পূরক কোণের মান $90^\circ - 60^\circ = 30^\circ$



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



প্রমাণ :

ধাপ	দৃষ্টান্ত
(১) $PS \parallel QR$ এবং SQ তাদের ছেদক $\therefore \angle PSQ = \angle SQR$ বা, $\angle PSO = \angle OQR$	[একান্তর কোণ]
(২) আবার, $PS \parallel QR$ এবং PR তাদের ছেদক $\therefore \angle SPR = \angle PRQ$ বা, $\angle SPO = \angle ORQ$	[একান্তর কোণ]
(৩) ΔPOS এবং ΔQOR -এ $\angle PSO = \angle OQR$ $\angle SPO = \angle ORQ$ এবং $PS = QR$	[ধাপ (১) হতে] [ধাপ (২) হতে] [কল্পনা]
$\therefore \Delta POS \cong \Delta QOR$	[কোণ-বাহু-কোণ উপপাদ্য]
সুতরাং, $OP = OR$, $OQ = OS$ (প্রমাণিত)	

(গ) বিশেষ নির্ধারন : মনে করি, PQRS সামান্তরিকের $\angle PQR = 90^\circ$ ।
প্রমাণ করতে হবে যে, $PR = QS$



প্রমাণ :

ধাপ	দৃষ্টান্ত
(১) $\angle Q = \angle S = 90^\circ$	[সামান্তরিকের বিপরীত কোণদ্বয় সমান]
(২) $\angle P + \angle Q + \angle R + \angle S = 360^\circ$ বা, $\angle P + \angle R = 360^\circ - 90^\circ - 90^\circ$ বা, $2\angle P = 180^\circ$ $\therefore \angle P = \angle R = 90^\circ$	[চতুর্ভুজের চার কোণের সমষ্টি 360°] [ধাপ ১ হতে] [$\angle P = \angle R$]
(৩) $\angle P = \angle Q = \angle R = \angle S = 90^\circ$	[ধাপ (১) ও (২) হতে]
(৪) ΔPQR ও ΔPQS এ, $QR = PS$ $\angle PQR = \angle QPS$ $PQ = PQ$ $\therefore \Delta PQR \cong \Delta PQS$ $\therefore PR = QS$ (প্রমাণিত)	[সামান্তরিকের বিপরীত বাহুদ্বয় সমান] [ধাপ (৩) হতে] [সমকোণ বাহু] [বাহু-কোণ-বাহু সর্বসমতা]

২।



চিত্রে $PQ \parallel SR$ এবং $SP \parallel RQ$ * [বিন্যাসপূর্ণ বোর্ড-২০১৮]

- (ক) একটি বহুভুজের দুইটি কর্ণ যথাক্রমে 10 সে.মি.মিটার ও 24 সে.মি.মিটার। বহুভুজের 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,

$$\begin{aligned} \text{বহুভুজের ক্ষেত্রফল} &= \frac{1}{2} \times \text{কর্ণদ্বয়ের পূরকফল} \\ &= \frac{1}{2} \times 10 \times 24 \text{ বর্গসে.মি.মিটার} \\ &= 120 \text{ বর্গসে.মি.মিটার} \end{aligned}$$

(খ) সূত্রানুসারে ১(খ) সং প্রকৃতি।

(গ) বিশেষ নির্ধারন : মনে করি, PQRS চতুর্ভুজের $PQ \parallel SR$, $SP \parallel RQ$ এবং $QS = PR$ ।
প্রমাণ করতে হবে যে, PQRS একটি আয়ত



প্রমাণ :

ধাপ	দৃষ্টান্ত
(১) PQRS চতুর্ভুজের $PQ \parallel SR$ এবং $SP \parallel RQ$ $\therefore$ PQRS একটি সামান্তরিক	[কল্পনা]
(২) ΔSPQ ও ΔPQR এ $SP = QR$ $PQ = PQ$ $QS = PR$ $\therefore \Delta SPQ \cong \Delta PQR$	[সামান্তরিকের বিপরীত বাহুদ্বয় সমান] [সমকোণ বাহু] [দেওয়া আছে] [বাহু-বাহু-বাহু সর্বসমতা]
(৩) $SP \parallel RQ$ এবং PQ তাদের ছেদক $\angle SPQ + \angle PQR = 2$ সমকোণ বা, $2\angle SPQ = 2$ সমকোণ বা, $\angle SPQ + \angle SPQ = 2$ সমকোণ বা, $\angle SPQ = 1$ সমকোণ $\therefore$ PQRS একটি আয়ত (প্রমাণিত)	[ছেদকের একই পাশের অন্তঃস্থ কোণদ্বয় পরস্পর সম্পূরক] [ধাপ ২ হতে]

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Adele Anna Rescigno, Ugo Vaccaro



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