

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 ছেদ করে। সেখানি থেকে দেখা যায়, A বিন্দুর ভূজ ও এবং কোটি 4।

নির্ণেয় সমাধান, $(x, y) = (3, 4)$

জ্যামিতি অংশ



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

১। PQRS সামান্তরিকের PR এবং QS কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ 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]

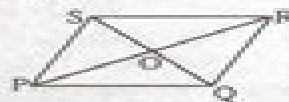
বা, $2\angle P = 120^\circ \therefore \angle P = 60^\circ$

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



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

প্রমাণ :



(১) $PS \parallel QR$ এবং SQ তাদের ছেদক

$\therefore \angle PSQ = \angle SQR$

বা, $\angle PSO = \angle OQR$

(২) আবার, $PS \parallel QR$ এবং PR তাদের ছেদক

$\therefore \angle SPR = \angle PRQ$

বা, $\angle SPO = \angle ORQ$

(৩) $\triangle POS$ এবং $\triangle QOR$ -এ

$\angle PSO = \angle OQR$

$\angle SPO = \angle ORQ$

এবং $PS = QR$

$\therefore \triangle POS \cong \triangle QOR$

[একান্তর কোণ]

[একান্তর কোণ]

[ধাপ (১) হতে]

[ধাপ (২) হতে]

[কল্পনা]

[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 :

(১) $\angle Q = \angle S = 90^\circ$

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

বা, $\angle P + \angle R = 360^\circ - 90^\circ - 90^\circ$

বা, $2\angle P = 180^\circ$

$\therefore \angle P = \angle R = 90^\circ$

(৩) $\angle P = \angle Q = \angle R = \angle S = 90^\circ$

(৪) $\triangle PQR$ ও $\triangle PQS$ এ,

$QR = PS$

$\angle PQR = \angle QPS$

$PQ = PQ$

$\therefore \triangle PQR \cong \triangle PQS$

$\therefore PR = QS$ (প্রমাণিত)

[সামান্তরিকের বিপরীত কোণদ্বয় সমান]
[চতুর্ভুজের চার কোণের সমষ্টি 360°]
[ধাপ ১ হতে]
[$\angle P = \angle R$]

[ধাপ (১) ও (২) হতে]

[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 ১০ সে.মি.মিটার ও ২৪ 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

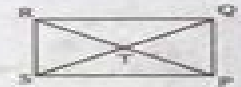
সমাধান : (ক) আমরা জানি,

বহুভুজের ক্ষেত্রফল = $\frac{1}{2} \times$ কর্ণদ্বয়ের পূর্বফল

= $\frac{1}{2} \times 10 \times 24$ বর্গসে.মি.মিটার
= 120 বর্গসে.মি.মিটার

(খ) সূত্রানুসারে $ST = TQ$ না? প্রমাণ কর।

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



প্রমাণ :

(১) PQRS চতুর্ভুজের $PQ \parallel SR$ এবং $SP \parallel RQ$
 \therefore PQRS একটি সামান্তরিক

(২) $\triangle SPQ$ ও $\triangle PQR$ এ

$SP = QR$

$PQ = PQ$

$QS = PR$

$\therefore \triangle SPQ \cong \triangle PQR$

$\therefore \angle SPQ = \angle PQR$

(৩) $SP \parallel RQ$ এবং PQ তাদের ছেদক

$\angle SPQ + \angle PQR = 2$ সমকোণ

বা, $2\angle SPQ = 2$ সমকোণ

বা, $\angle SPQ = 1$ সমকোণ
 \therefore PQRS একটি আয়ত (প্রমাণিত)

[কল্পনা]

[সামান্তরিকের বিপরীত বাহুদ্বয় সমান]
[সমকোণ বাহু]
[সেওয়া আছে]
[বাহু-বাহু-বাহু সর্বসমতা]

[ছেদকের একই পাশের অন্তঃস্থ কোণদ্বয় পরস্পর সম্পূরক]
[ধাপ ২ হতে]

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