

৭৮.  $9x - 7y = 13$  এবং  $5x - 3y = 9$  দুইটি সরল সমীকরণ।

(ক)  $(0, -3)$  বিন্দুটি কোন সমীকরণকে সিদ্ধ করে তা নির্ণয় কর।

(খ) অপনয়ন পদ্ধতিতে সমীকরণ জোড়ের সমাধান কর।

(গ) সমীকরণদ্বয়ের লেখ অঙ্কন করে ছেদ বিন্দুর ভূজ ও কোটি নির্ণয় কর।

### গ বিভাগ—জ্যামিতি

৭৯. তিনটি বাহুর দৈর্ঘ্য  $a = 6$  সে.মি,  $b = 3.5$  সে.মি,  $c = 4$  সে.মি. এবং বৃহত্তম বাহু সংলগ্ন দুইটি কোণ  $\angle x = 75^\circ$  এবং  $\angle y = 65^\circ$ .

(ক) পেন্সিল কম্পাসে  $\angle x$  আঁক।

(খ) চতুর্ভুজটি অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যিক]

(গ) উদ্দীপকে উল্লেখিত  $a$  ও  $c$  বাহু দুটিকে রখসের কর্ণ বিবেচনা করে রখসটি অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যিক]



চিত্রে A কেন্দ্রিক বৃত্তের ব্যাস  $PQ = 6$  সে.মি.।

(ক) A কেন্দ্রবিশিষ্ট বৃত্তের ক্ষেত্রফল নির্ণয় কর।

(খ) প্রমাণ কর যে,  $RQ$  এর মধ্য বিন্দু M.

(গ) প্রমাণ কর যে,  $PQ > RQ$ .

৮০.  $\triangle ABC$  এ  $\angle A = 90^\circ$ , BP এবং CQ দুইটি মধ্যমা।

(ক) পেন্সিল কম্পাসের সাহায্যে  $\angle A$  কে সমদ্বিখলিত কর।

(খ) প্রমাণ কর যে,  $BC^2 = CQ^2 + 3AQ^2$ .

(গ) প্রমাণ কর যে,  $5BC^2 = 4(BP^2 + CQ^2)$ .

### ঘ বিভাগ—তথ্য ও উপাত্ত

১০. ৮ম শ্রেণির ৩০ জন শিক্ষার্থীর গণিতে প্রাপ্ত নম্বর হলো :—

৬০, ৪৫, ৪০, ৫৫, ৫৮, ৬৮, ৫৪, ৬৮, ৪৯, ৫৬, ৫৯, ৪৯, ৪২, ৭২, ৭০, ৫৯, ৫২, ৭০, ৫৩, ৬৪, ৭০, ৪৮, ৫৭, ৬৭, ৭০, ৬০, ৪১, ৬১, ৬২, ৫০।

(ক) শ্রেণি ব্যবধান ৫ ধরে শ্রেণি সংখ্যা নির্ণয় কর।

(খ) মধ্যক নির্ণয় কর।

(গ) শ্রেণি ব্যবধান ৬ ধরে গণসংখ্যা নিবেশন সারণি তৈরি করে গাণিতিক গড় নির্ণয় কর।

১১. ৮ম শ্রেণির ৫০ জন শিক্ষার্থীর বিজ্ঞান বিষয়ে প্রাপ্ত নম্বরের গণসংখ্যা নিবেশন সারণি দেয়া হলো :—

প্রাপ্ত নম্বর	৩১—৪০	৪১—৫০	৫১—৬০	৬১—৭০	৭১—৮০	৮১—৯০
গণসংখ্যা	৬	৮	১৩	১০	৮	৫

(ক) ক্রমযোজিত গণসংখ্যা সারণি তৈরি কর।

(খ) প্রাপ্ত নম্বরের গড় নির্ণয় কর।

(গ) প্রাপ্ত উপাত্তের আয়তলেখ অঙ্কন কর।

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web an lfsr is often the first port of call implementation is relatively simple a shift register with a number of terms xord together to create the feedback term when considering the

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web the implementation of the prbs generator uses a linear feedback shift register lfsr the generator produces a pre defined sequence of 1s and 0s occurring with the same

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web oct 31 2006 33 176 prbs verilog here are the key lines of code for a 19 bit lfsr which generates a prbs the output is simply lfsr bit 0 code reg 18 0 lfsr 0 always

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web apr 23 2012 this is easily rendered in verilog as reg 4 0 d always posedge clk begin d d 3 0 d 4 d 2 end this is as others mentioned a linear feedback

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web the prbs generator generates a self aligning pattern and covers a known number of unique sequences because the prbs pattern is generated by a linear feedback shift