

Step ২ জেএসসি পরীক্ষার প্রসঙ্গ বিবেচনের মাধ্যমে সাজেশপ ৫★

☞ প্রশ্ন ১৪৮ $p^2 + q^2 + r^2 = 0$ এবং $\left(x + \frac{1}{x}\right) = a$ দুইটি বীজগণিতিক সমীকরণ। [অনু. ৪.১]

ক. $p^2 + q^2 + r^2$ এর বর্ণ নির্ণয় কর। ২

খ. $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর। ৪

গ. দেখাও যে, $p^6 + q^6 + r^6 = 3p^2q^2r^2$ । ৪

[রাঙ্গামাটি বোর্ড ২০১৬]

উত্তরসূত্র : পৃষ্ঠা ১০০-এর ২নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৪৯ $x + \frac{1}{x} = 5$ একটি বীজগণিতিক সমীকরণ, যেখানে $x > 0$ । [অনু. ৪.১]

ক. $3x + \frac{3}{x}$ এর মান নির্ণয় কর। ২

খ. $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর। ৪

গ. প্রমাণ কর যে, $x^2 - \frac{1}{x^2} = x^3 + \frac{1}{x^3}$ । ৪

[ঢাকা ৮ ২০১৪]

উত্তরসূত্র : পৃষ্ঠা ১০১-এর ৪নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫০ $a + \frac{1}{a} = 5$ এবং $a > 1$ । [অনু. ৪.১]

ক. $\left(a - \frac{1}{a}\right)^2$ এর মান নির্ণয় কর। ২

খ. $a^4 + \frac{1}{a^4}$ এর মান নির্ণয় কর। ৪

গ. দেখাও যে, $a^6 - 110a^4 + 1 = 0$ । ৪

[যশোর বোর্ড ২০১৪]

উত্তরসূত্র : পৃষ্ঠা ১০২-এর ৬নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫১ $a^2 - 6a + 1 = 0$ হলে, যেখানে $a > 0$ । [অনু. ৪.২]

ক. $a + \frac{1}{a}$ এর মান নির্ণয় কর। ২

খ. দেখাও যে, $a^3 + \frac{1}{a^3} = 198$ । ৪

গ. $\left(a^2 - \frac{1}{a^2}\right)\left(a^4 + \frac{1}{a^4}\right)$ এর মান নির্ণয় কর। ৪

[ঢাকা বোর্ড ২০১৬]

উত্তরসূত্র : পৃষ্ঠা ১৪০-এর ৭নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫২ $x^2 - 4x + 1 = 0$ [অনু. ৪.২]

ক. $x + \frac{1}{x}$ এর মান কত? ২

খ. $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর। ৪

গ. দেখাও যে, $x^4 + \frac{1}{x^4} = 194$ । ৪

[যশোর বোর্ড ২০১৬]

উত্তরসূত্র : পৃষ্ঠা ১৪৪-এর ৮নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৩ $a^2 - 2a + 1 = 0$ [অনু. ৪.২]

ক. $a + \frac{1}{a}$ এর মান নির্ণয় কর। ২

খ. দেখাও যে, $\frac{3a^6 + 3}{a^6} = 6$ । ৪

গ. প্রমাণ কর যে, $a^2 + \frac{1}{a^2} = a^4 + \frac{1}{a^4}$ । ৪

[মির্জাপুর বোর্ড ২০১৬]

উত্তরসূত্র : পৃষ্ঠা ১৪৫-এর ১১নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৪ $a + \frac{1}{a} = 2$ একটি বীজগণিতিক সমীকরণ, যেখানে $a > 0$ । [অনু. ৪.২]

ক. দেখাও যে, $a^2 - 2a + 1 = 0$ । ২

খ. $a^2 - \frac{1}{a^2}$ এর মান নির্ণয় কর। ৪

গ. প্রমাণ কর যে, $a^3 + \frac{1}{a^3} = a^4 + \frac{1}{a^4}$ । ৪

[কুমিল্লা বোর্ড ২০১৩]

উত্তরসূত্র : পৃষ্ঠা ১৪৬-এর ১০নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৫ $b^2 - 2b - 1 = 0$ এবং b কন্যাতক। [অনু. ৪.২]

ক. $b - \frac{1}{b}$ এর মান নির্ণয় কর। ২

খ. $\left(b^2 + \frac{1}{b^2}\right)\left(b^2 - \frac{1}{b^2}\right)$ এর মান কত? ৪

গ. দেখাও যে, $\frac{b^4 - 1}{b^2} = 4\sqrt{2}$ । ৪

[সিলেট বোর্ড ২০১৩]

উত্তরসূত্র : পৃষ্ঠা ১৪৭-এর ১৫নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৬ $a - 5 = \frac{1}{a}$ হলে, [অনু. ৪.২]

ক. $\left(a + \frac{1}{a}\right)^2$ এর মান নির্ণয় কর। ২

খ. $a^3 + \frac{1}{a^3}$ এর মান নির্ণয় কর। ৪

গ. প্রমাণ কর যে, $a^4 - 727 = \frac{1}{a^4}$ । ৪

[বরিশাল বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ১৪৭-এর ১৬নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৭ $x + y, x^2 + y^2$ এবং $x^3 + y^3$ তিনটি বীজগণিতীয় রাশি। [অনু. ৪.২]

ক. তৃতীয় রাশিকে উৎপাদকে বিশ্লেষণ কর। ২

খ. ১ম ও ২য় রাশির মান যথাক্রমে ৩ এবং ৫ হলে, xy এর মান নির্ণয় কর। ৪

গ. ১ম রাশি, ৩য় রাশি ও $x^2 - y^2$ -এর ল, সা, গু নির্ণয় কর। ৪

[বরিশাল বোর্ড ২০১৪]

উত্তরসূত্র : পৃষ্ঠা ১৪৬-এর ১৬নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৮ $a^2 - 4, a^2 + 4a + 4$ এবং $a^3 - 8$ [অনু. ৪.৩]

ক. দ্বিতীয় রাশির উৎপাদকে বিশ্লেষণ কর। ২

খ. প্রথম ও তৃতীয় রাশির গুণফলকে দ্বিতীয় রাশি দ্বারা ভাগ কর। ৪

গ. রাশি তিনটির ল, সা, গু নির্ণয় কর। ৪

[চট্টগ্রাম বোর্ড ২০১৪]

উত্তরসূত্র : পৃষ্ঠা ১৬৯-এর ১নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

☞ প্রশ্ন ১৫৯ $x^2 - y^2, 2x + 2y$ এবং $2x^2y + 2xy^2$ তিনটি বীজগণিতীয় রাশি। [অনু. ৪.৩]

ক. ১ম রাশির বর্ণ নির্ণয় কর। ২

খ. রাশি তিনটির ল, সা, গু নির্ণয় কর। ৪

গ. ২য় রাশি $= 6$ এবং $xy = -4$ হলে, $x^2 - y^2$ এর মান নির্ণয় কর। ৪

[যশোর বোর্ড ২০১৩]

উত্তরসূত্র : পৃষ্ঠা ১৭৬-এর ৭নং সুজননীল প্রশ্নের সমাধান প্রদৃষ্ট।

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