

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව
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අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2021(2022)
 සාමාන්‍ය ශ්‍රේණිගත පන්ති (සංඥා ස්‍ර) පාඨමාර්ග, 2021(2022)
 General Certificate of Education (Adv. Level) Examination, 2021(2022)

සංයුක්ත ගණිතය I
 இணைந்த கணிதம் I
 Combined Mathematics I

10 S I

B කොටස

* ප්‍රශ්න පහතට පමණක් විඳිතවූ ප්‍රයෝජන.

11. (a) $k > 1$ යැයි ගනිමු. $x^2 - 2(k+1)x + (k-3)^2 = 0$ සමීකරණයට තාත්කලීය ප්‍රමාණ සූල ඇති බව පෙන්වන්න. මෙම සූල α හා β යැයි ගනිමු. k ඇතුළත් $\alpha + \beta$ හා $\alpha\beta$ ලියා දක්වා, α හා β දෙකම ධන වන පරිදි වූ k හි අගයන් සොයන්න.

දැන්, $1 < k < 3$ යැයි ගනිමු. k ඇතුළත්, $\frac{1}{\sqrt{\alpha}}$ හා $\frac{1}{\sqrt{\beta}}$ සූල වන වර්ගය සමීකරණය සොයන්න.

(b) $f(x) = 2x^2 + ax^2 + bx + 1$ හා $g(x) = x^2 + cx^2 + ax + 1$ යැයි ගනිමු; මෙහි $a, b, c \in \mathbb{R}$ වේ. $(x-1)$ මගින් $f(x)$ බෙදූ විට භේදය 5 බව හා $x^2 + x - 2$ මගින් $g(x)$ බෙදූ විට භේදය $x+1$ බව දී ඇත. a, b හා c හි අගයන් සොයන්න.

තවද, a, b හා c සඳහා මෙම අගයන් සහිතව, සියලු $x \in \mathbb{R}$ සඳහා $f(x) - 2g(x) \leq \frac{13}{12}$ බව පෙන්වන්න.

12. (a) පහත දී ඇති සංඛ්‍යා 10 ක් ගනු ලබන සංඛ්‍යා 4 කින් සමන්විත, සංඛ්‍යා 4 ක සංඛ්‍යාවක් හැදීමට අවශ්‍යව ඇත:

1, 1, 1, 2, 2, 3, 3, 4, 5, 5

(i) සෘජුව ගනු ලබන සංඛ්‍යා 4 ම වෙනස් නම්,

(ii) ඕනෑම සංඛ්‍යා 4 ක් සෘජුවම හැකි නම්,

හැදූ හැකි ඵලදායී වෙනත් සංඛ්‍යා 4 ක සංඛ්‍යා ගණන සොයන්න.

(b) $r \in \mathbb{Z}^+$ සඳහා $U_r = \frac{-16r^2 + 12r^2 + 40r + 2}{5(2r+1)^2(2r-1)^2}$ යැයි ගනිමු.

$r \in \mathbb{Z}^+$ සඳහා $U_r = \frac{A(r-1)}{(2r+1)^2} - \frac{(r-B)}{(2r-1)^2}$ වන පරිදි A හා B තාත්කලීය නියතයන් හි අගයන් සොයන්න.

එසේම, $r \in \mathbb{Z}^+$ සඳහා $\frac{1}{5^{r-1}} U_r = f(r) - f(r-1)$ වන පරිදි $f(r)$ සොයා,

$n \in \mathbb{Z}^+$ සඳහා $\sum_{r=1}^n \frac{1}{5^{r-1}} U_r = 1 + \frac{n-1}{5^n(2n+1)^2}$ බව පෙන්වන්න.

$\sum_{r=1}^{\infty} \frac{1}{5^{r-1}} U_r$ අර්ථමය ශ්‍රේණිය අභිසාරී බව අත්පත් කර එහි ඵලදාය සොයන්න.

Mathematics 402o Level Past Paper 22

Emilio Di Giacomo, Anna Lubiw



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