

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2017 අගෝස්තු
 கல்விப் பொதுத் தராதரப் பரீட்சை (உயர் தர) பரීட்சை, 2017 ஆகஸ்ட்
 General Certificate of Education (Adv. Level) Examination, August 2017

සංයුක්ත ගණිතය I
 இணைந்த கணிதம் I
 Combined Mathematics I

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B කොටස

මෙම ප්‍රශ්න පහතට පමණක් පිළිතුරු සපයන්න.

11. (a) $f(x) = 3x^2 + 2ax + b$ යැයි ගනිමු; මෙහි $a, b \in \mathbb{R}$ වේ.
 $f(x) = 0$ සමීකරණයට තාත්ත්වික ප්‍රතිඵලයක් මුල දෙකක් තිබෙන බව දී ඇත. $a^2 > 3b$ බව පෙන්වන්න.
 $f(x) = 0$ හි මුල α හා β යැයි ගනිමු. a ඇසුරෙන් $\alpha + \beta$ ද b ඇසුරෙන් $\alpha\beta$ ද ලියා දක්වන්න.
 $|\alpha - \beta| = \frac{2}{3} \sqrt{a^2 - 3b}$ බව පෙන්වන්න.
 $|\alpha + \beta|$ හා $|\alpha - \beta|$ ස්වභාවික මුල ලෙස ඇති වර්ගය සමීකරණය
 $9x^2 - 6(|\alpha| + \sqrt{a^2 - 3b})x + 4\sqrt{a^2 - 3b} = 0$ මගින් දෙනු ලබන බව තවදුරටත් පෙන්වන්න.
- (b) $g(x) = x^2 + px^2 + qx + 1$ යැයි ගනිමු; මෙහි $p, q \in \mathbb{R}$ වේ. $(x-1)(x+2)$ මගින් $g(x)$ බෙදා විට ශේෂය $3x+2$ වේ. $(x-1)$ මගින් $g(x)$ බෙදා විට ශේෂය 5 බව හා $(x+2)$ මගින් $g(x)$ බෙදා විට ශේෂය -4 බව පෙන්වන්න.
 p හා q හි අගයන් සොයා $(x+1)$ යන්න $g(x)$ හි සාධකයක් බව පෙන්වන්න.
12. (a) x හි ආරෝහණය බල වලින් $(5+2x)^{14}$ හි ද්විපද ප්‍රසාරණය ලියා දක්වන්න.
 $r = 0, 1, 2, \dots, 14$ සඳහා ඉහත ප්‍රසාරණයේ x^r අඩංගු පදය T_r යැයි ගනිමු.
 $x \neq 0$ සඳහා $\frac{T_{r+1}}{T_r} = \frac{2(14-r)}{5(r+1)} x$ බව පෙන්වන්න.
ඒ මගින්, $x = \frac{4}{3}$ වන විට, ඉහත ප්‍රසාරණයෙහි විශාලතම පදය ලබාදෙන r හි අගය සොයන්න.
- (b) $c \geq 0$ යැයි ගනිමු. $r \in \mathbb{Z}^+$ සඳහා $\frac{2}{(r+c)(r+c+2)} = \frac{1}{(r+c)} - \frac{1}{(r+c+2)}$ බව පෙන්වන්න.
ඒ මගින්, $n \in \mathbb{Z}^+$ සඳහා $\sum_{r=1}^n \frac{2}{(r+c)(r+c+2)} = \frac{(3+2c)}{(1+c)(2+c)} - \frac{1}{(n+c+1)} - \frac{1}{(n+c+2)}$ බව පෙන්වන්න.
 $\sum_{r=1}^{\infty} \frac{2}{(r+c)(r+c+2)}$ අපරිමිත ශ්‍රේණිය අභිසාරී බව අපෝහනය කර එහි අර්ථය සොයන්න.
 c සඳහා සුදුසු අගයන් සහිත ව මෙම අර්ථය භාවිතයෙන්, $\sum_{r=1}^{\infty} \frac{1}{r(r+2)} = \frac{1}{3} + \sum_{r=1}^{\infty} \frac{1}{(r+1)(r+3)}$ බව පෙන්වන්න.

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