



وزارة التربية والتعليم

الإدارة المركزية لتطوير المناهج

إدارة تنمية مادة الرياضيات

أداءات ونقيمات لمنهج الرياضيات

للسف الثانى الثانوى [علمى]

للعام الدراسى 2024 / 2025

الرياضيات



رياضيات بحتة لغات ٢ ث علمي – التقييم الإسبوعي – الإسبوع الرابع عشر

The first group:

1) In how many ways can seven students be chosen from among 10 students to go on a historical trip?

Solu:

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2) Find the solution set for the following equation : ${}^{11}C_r = {}^{11}C_{2r-1}$

Solu:

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3) Find : $\int (2x + 1)(x^2 + x + 2)^5 dx$

Solu:

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4) Find : $\int \sec^4 x \tan x dx$

Solu:

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5) If : $\frac{\tan 40^\circ}{1 - \tan^2 40^\circ} = \cot x$ such that $x \in]0, \frac{1}{2}\pi[$, then find the value of x

Solu:

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The second group:

1) In how many ways can six students be chosen from among 9 students to go on a historical trip?

Solu:

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2) Find the solution set for the following equation : ${}^9C_r = {}^9C_{2r-3}$

Solu:

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3) Find : $\int (2x + 3)(x^2 + 3x + 3)^2 dx$

Solu:

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4) Find : $\int \csc^4 x \cot x dx$

Solu:

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5) If : $\frac{\tan 35^\circ}{1 - \tan^2 35^\circ} = \cot x$ such that $x \in]0, \frac{1}{2}\pi[$, then find the value of x

Solu:

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The third group:

1) In how many ways can five students be chosen from among 8 students to go on a historical trip?

Solu:

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2) Find the solution set for the following equation : ${}^{13}C_r = {}^{13}C_{2r-1}$

Solu:

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3) Find : $\int (2x - 5)(x^2 - 5x + 5)^3 dx$

Solu:

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4) Find : $\int \tan^4 x \sec^2 x dx$

Solu:

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5) If : $\frac{\tan 25^\circ}{1 - \tan^2 25^\circ} = \cot x$ such that $x \in]0, \frac{1}{2}\pi[$, then find the value of x

Solu:

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