



وزارة التربية والتعليم و التعليم الفني
الإدارة المركزية للتعليم العام
إدارة تنمية مادة الرياضيات



برعاية معالي وزير التربية والتعليم و التعليم الفني السيد الأستاذ / محمد عبد اللطيف



وتوجيهات رئيس الإدارة المركزية للتعليم العام
المشرف على مسنشارى المواد الدراسية

د / هالة عبد السلام خفاجى

إشراف علمي
مسنشار الرياضيات
أ / منال عزقول

إداءات و تقييمات لمنهج الرياضيات العامة لفات

للفص الثاني الثانوي " ادبى"
الفصل الدراسي الثاني
للعام الدراسي ٢٠٢٥ / ٢٠٢٦

الاسبوع السادس

لجنة الاعداد

أ / محمود سراج د / محمد عبد العاطى أ / عفاف جاد

ترجمة

أ / السيد احمد

مراجعة الترجمة

أ / عثمان مصطفى عثمان أ / محمود درويش





⑥ الرياضيات العامة لغات - للصف الثانى الثانوي - الشعبة الأدبية - الأداء الصفى - الأسبوع السادس

First: Algebra Unit 1(Sequences and series -continue)

1) Find the arithmetic sequence (T_n) in which $T_7 = 11$ and $T_6 = 13$

Solu:

2) Find the number of terms of the arithmetic sequence

$(1, 5, 9, \dots, 77)$, then find the sum of its terms.

Solu:

3) Find the arithmetic sequence (T_n) in which $T_1 = 5$ and $T_8 = 40$

Solu:

4) Find the arithmetic sequence (T_n) in which first term equals 1 , its last term equals 99 and its sum equals 2500 .

Solu:

5) Find the arithmetic sequence (T_n) in which the sum of the first three term equals zero and the sum of the first five terms equals 15 .

Solu:

6) Find the arithmetic sequence in which $T_4 = 5$ and $T_7 = 30$

Solu:



Second: Calculus and integration Unit 3: Differentiation

7) Find $\frac{dy}{dx}$ if: $y = x + \frac{1}{x}$

Solu:

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8) Find $\frac{dy}{dx}$ if: $y = \frac{x}{x^2+1}$, then find $\frac{dy}{dx}$ at $x = 1$

Solu:

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9) Find $\frac{dy}{dx}$ if $y = (5x^2 - 7x)^5$

Solu:

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10) Find $\frac{dy}{dx}$ if $y = z^2 + 3$ and $z = \frac{1}{x}$

Solu:

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⑥ الرياضيات العامة لغات - لصف الثانى الثانوى - الشعبة الأدبية - الأداء المنزلى - الأسبوع السادس ⑥

First: Algebra Unit 1(Sequences and series- continue)

1) Find the arithmetic sequence (T_n) in which $T_7 = 15$ and $T_6 = 17$

Solu:

2) Find the number of terms of the arithmetic sequence
(2 , 6 , 10 , , 78) ,then find the sum of its terms.

Solu:

3) Find the arithmetic sequence (T_n) in which $T_1 = 6$ and $T_8 = 41$

Solu:

4) Find the arithmetic sequence (T_n) in which first term equals 2 , its last term equals 100 and its sum equals 5100 .

Solu:

5) Find the arithmetic sequence (T_n) in which the sum of the first five term equals zero and the sixth term equals 9 .

Solu:

6) Find the arithmetic sequence in which $T_4 = 22$ and $T_7 = 31$

Solu:



Second: Calculus and integration Unit 3: Differentiation

7) Find $\frac{dy}{dx}$ if: $y = 3x - \frac{4}{x}$

Solu:

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8) Find $\frac{dy}{dx}$ if: $y = \frac{5x}{x^3+x}$, then find $\frac{dy}{dx}$ at $x = 2$

Solu:

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9) Find $\frac{dy}{dx}$ if $y = (2x^3 + 1)^7$

Solu:

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10) Find $\frac{dy}{dx}$ if $y = z^3 + 1$ and $z = \frac{1}{x}$

Solu:

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⑥ الرياضيات العامة لغات - لصف الثانى الثانوي - الشعبة الأدبية - التقييمات الأسبوعية - الأسبوع السادس

First Group

1) Find the arithmetic sequence (T_n) in which $T_2 = 14$ and $T_3 = 21$

Solu:

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2) Find the number of terms of the arithmetic sequence

(5 , 9 , 13 , , 81) , then find the sum of its terms.

Solu:

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3) Find the arithmetic sequence (T_n) in which first term equals -14 , its last term equals 62 and its sum equals 480 .

Solu:

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4) Find $\frac{dy}{dx}$ if: $y = \frac{x^2}{3x^4 - 4}$

Solu:

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5) Find $\frac{dy}{dx}$ if: $y = (3x^2 + 2x + 1)^5$

Solu:

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Second Group

1) Find the arithmetic sequence (T_n) in which $T_4 = 6$ and $T_5 = 10$

Solu:

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2) Find the number of terms of the arithmetic sequence
(6 , 10 , 14 , , 82) , then find the sum of its terms.

Solu:

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3) Find the arithmetic sequence (T_n) in which first term equals -15 , its last term equals 61 and its sum equals 920 .

Solu:

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4) Find $\frac{dy}{dx}$ if: $y = \frac{x^3}{5x^2+1}$

Solu:

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5) Find $\frac{dy}{dx}$ if: $y = (5x^3 + 6x + 7)^6$

Solu:

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Third Group

1) Find the arithmetic sequence (T_n) in which $T_7= 9$ and $T_8 = 11$

Solu:

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2) Find the number of terms of the arithmetic sequence
(7 , 11 , 15 , , 83) , then find the sum of its terms.

Solu:

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3) Find the arithmetic sequence (T_n) in which first term equals -6 , its last term equals 96 and its sum equals 810 .

Solu:

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4) Find $\frac{dy}{dx}$ if: $y = \frac{x^2}{4x^3+1}$

Solu:

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5) Find $\frac{dy}{dx}$ if: $y = (6x^2 + 2x + 1)^9$

Solu:

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