

لتكن f الدالة العددية المعرفة على $\mathbb{R} - \{-1\}$ بما يلي :

$$\begin{cases} f(x) = \frac{2x^2 + x - 3}{1 - x^2} & ; x < 1 \\ f(x) = x^3 - 3x^2 + 4 & ; x \geq 1 \end{cases}$$

- (1) احسب النهايتين : $\lim_{x \rightarrow -\infty} f(x)$ و $\lim_{x \rightarrow +\infty} f(x)$.
(1.5) احسب النهايتين : $\lim_{x \rightarrow (-1)^-} f(x)$ و $\lim_{x \rightarrow (-1)^+} f(x)$.
(0.5+1) احسب النهايتين : $\lim_{x \rightarrow 1^-} f(x)$ و $\lim_{x \rightarrow 1^+} f(x)$. هل تقبل الدالة f نهاية عند $a = 1$ ؟

التمرين الثاني: (5 نقط)

نعتبر، في المستوى المنسوب الى م م م $(O; \vec{i}; \vec{j})$ ، النقط $A(-1; 1)$ و $B(1; -1)$ و $C(\sqrt{3}; \sqrt{3})$.

- (1) احسب الجداء السلمي $\overrightarrow{AB} \cdot \overrightarrow{AC}$ و المسافتين AB و AC .
(1+0.5) احسب : $\cos(\overrightarrow{AB}; \overrightarrow{AC})$ و $\sin(\overrightarrow{AB}; \overrightarrow{AC})$.
(0.5+1) حدد القياس الرئيسي للزاوية $(\overrightarrow{AB}; \overrightarrow{AC})$. استنتج ان ABC مثلث متساوي الأضلاع.

التمرين الثالث: (10.5 نقط)

لتكن (C) مجموعة النقط $M(x; y)$ من المستوى، المنسوب الى م م م $(O; \vec{i}; \vec{j})$ ، التي تحقق:

$$x^2 + y^2 + x - y - 12 = 0$$

- (1) بين ان (C) هي الدائرة التي مركزها $\Omega\left(-\frac{1}{2}; \frac{1}{2}\right)$ وشعاعها $r = \frac{5\sqrt{2}}{2}$.
(0.5) (2) ا) تحقق من ان $A(2; -2) \in (C)$.
(1) ب) اكتب معادلة المماس (T_A) للدائرة (C) في النقطة A .
(3) ليكن (D) المستقيم ذي المعادلة الديكارية : $7x + y - 22 = 0$.
(0.5) ا) بين ان المستقيم (D) مماس للدائرة (C) .
(1) ب) اكتب معادلة المستقيم (H) المار من النقطة Ω و العمودي على المستقيم (D) .
(1.5) ج) استنتج زوج إحداثيتي نقطة تماس المستقيم (D) و الدائرة (C) .
(4) ليكن (Δ) المستقيم الذي معادلته الديكارية : $x + y - 1 = 0$.
(0.5) ا) بين ان المستقيم (Δ) يقطع الدائرة (C) في نقطتين E و F .
(1.5) ب) حدد إحداثيات التقاطعتين E و F .
(0.5) (5) ا) بين ان النقطة $B\left(-\frac{1}{2}; \frac{11}{2}\right)$ تقع خارج الدائرة (C) .
(1) ب) حدد معادلتى المماسين للدائرة (C) المارين من النقطة B .
(1.5) (6) حل مبريقيا النظامة التالية :
$$\begin{cases} x^2 + y^2 + x - y - 12 < 0 \\ x + y - 1 \geq 0 \end{cases}$$

Pixel C3 Maths Papers

Tao Wei



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