

ĐÁP ÁN CHẤM TRẮC NGHIỆM

1-C	6-C	11-D	16-D	21-B
2-D	7-D	12-D	17-D	22-D
3-B	8-D	13-C	18-D	23-D
4-B	9-C	14-C	19-D	24-A
5-B	10-B	15-A	20-C	25-B

ĐÁP ÁN CHẤM TỰ LUẬN

CÂU	NỘI DUNG	THANG ĐIỂM
Câu1 (1,5đ)	$a) \lim_{x \rightarrow +\infty} \frac{x+1}{2x+1} = \lim_{x \rightarrow +\infty} \frac{1+\frac{1}{x}}{2+\frac{1}{x}} = \frac{1}{2}$	0,75đ
	$b) \lim_{x \rightarrow 2^+} (3x-1) = 5 > 0; \lim_{x \rightarrow 2^+} (x-2) = 0$	0,25đ
	$\lim_{x \rightarrow 2^+} \frac{3x-1}{x-2} = +\infty$	0,25đ
Câu2 (0,75đ)	$f'(x) = 4x^5 + 8x$	0,25đ
Câu3 (0,5đ)	TXĐ: $D = \mathbb{R}; y' = (2m-1)x^2 - 2mx + 1; \Delta = m^2 - 2m + 1 = (m-1)^2$	0,25đ
	$y' \geq 0 \Leftrightarrow \begin{cases} 2m-1 > 0 \\ \Delta \leq 0 \end{cases} \Leftrightarrow \begin{cases} m > \frac{1}{2} \\ m = 1 \end{cases} \Rightarrow m = 1$	0,25đ
Câu4 (0,75đ)	$x_0 = 2; y_0 = 13; f'(x_0) = y'(2) = 24$	0,25đ
	$y = f'(x_0)(x-x_0) + y_0 = 24(x-2) + 13 = 24x - 35$	0,5đ
Câu5 (1,5đ)	$a) \overrightarrow{MN} + \overrightarrow{QP} = \overrightarrow{MP} + \overrightarrow{QN} \Leftrightarrow \overrightarrow{MN} - \overrightarrow{MP} = \overrightarrow{QN} - \overrightarrow{QP}$ $\Leftrightarrow \overrightarrow{PN} = \overrightarrow{PN}$	0,75đ

	<p>b) $\begin{cases} \Delta MNQ \Rightarrow MJ \perp NQ \\ \Delta PQN \Rightarrow PJ \perp NQ \end{cases} \Rightarrow NQ \perp (MJP) \text{ (0,25đ)}$</p> <p>Do $(IJP) \subset (MJP) \Rightarrow NQ \perp (IJP) \text{ (0,25đ)}$</p>	<p>0,75đ</p>
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