

1) The absolute maximum value of $f(x) = x^3 - 2x^2$ in $[-1, 2]$ is at $x =$

- ☐ A $-1, 0$ ☐ B $0, 2$ ☐ C -1 ☐ D $\frac{4}{3}$

2) The absolute minimum value of $f(x) = x^3 - 3x^2 + 1$ in $[-\frac{1}{2}, 4]$ is

- ☐ A 1 ☐ B -3 ☐ C 17 ☐ D $\frac{1}{8}$

3) The absolute maximum point of $f(x) = 3x^2 - 12x + 1$ in $[0, 3]$ is

- ☐ A $(0, 1)$ ☐ B $(0, 2)$ ☐ C $(2, -11)$ ☐ D $(2, -13)$

4) The absolute minimum point of $f(x) = 3x^2 - 12x + 1$ in $[0, 3]$ is

- ☐ A $(0, 1)$ ☐ B $(0, 2)$ ☐ C $(2, -11)$ ☐ D $(2, -13)$

5) The absolute minimum point of $f(x) = 3x^2 - 12x + 2$ in $[0, 3]$ is

- ☐ A $(3, -7)$ ☐ B $(0, 2)$ ☐ C $(2, -10)$ ☐ D $(2, -12)$

6) The values in $(-3, 3)$ which make $f(x) = x^3 - 9x$ satisfy Rolle's Theorem on $[-3, 3]$ are

- ☐ A $\pm\sqrt{3} \in [-3, 3]$ ☐ B $\pm 1 \in (-3, 3)$ ☐ C $\pm 2 \in (-3, 3)$ ☐ D $\pm\sqrt{3} \in (-3, 3)$

7) The values in $(0, 2)$ which make $f(x) = x^3 - 3x^2 + 2x + 5$ satisfy Rolle's Theorem on $[0, 2]$ are

- ☐ A $1 \pm \frac{4\sqrt{3}}{6} \in [0, 2]$ ☐ B $-1 \pm \frac{\sqrt{3}}{3} \in (0, 2)$
☐ C $1 \pm \frac{\sqrt{3}}{3} \in (0, 2)$ ☐ D $1 \pm \frac{\sqrt{3}}{6} \in (0, 2)$

8) The value c in $(0, 5)$ which makes $f(x) = x^2 - x - 6$ satisfy the Mean Value Theorem on $[0, 5]$ is

- ☐ A $\frac{2}{5} \in (0, 5)$ ☐ B $\frac{3}{2} \in (0, 5]$
☐ C $-\frac{5}{2} \in [0, 5]$ ☐ D $\frac{5}{2} \in (-3, 3)$

9) The value c in $(0,2)$ which makes $f(x)=x^3-x$ satisfy The Mean Value Theorem on $[0,2]$ is	
☐ $\frac{2}{\sqrt{3}} \in (0,2)$	☐ $-\frac{2}{\sqrt{3}} \in (0,2]$ ☐ $\frac{3}{\sqrt{2}} \in (0,2)$ ☐ $\pm\frac{2}{\sqrt{3}} \in (0,2)$
10) The value in $(0,1)$ which makes $f(x)=3x^2+2x+5$ satisfy the Mean Value Theorem on $[0,1]$ is	
☐ $-\frac{1}{2}$	☐ $\frac{1}{3}$ ☐ $\frac{1}{2}$ ☐ $\frac{2}{3}$
11) The critical numbers of the function $f(x)=x^3+3x^2-9x+1$ are	
☐ $-1,3$	☐ $-3,1$ ☐ ± 3 ☐ ± 1
12) The function $f(x)=x^3+3x^2-9x+1$ is decreasing on	
☐ $(-\infty,-1)\cup(3,\infty)$	☐ $(-3,1)$ ☐ $(-\infty,-3)\cup(1,\infty)$ ☐ $(-1,3)$
13) The function $f(x)=x^3+3x^2-9x+1$ is increasing on	
☐ $(-\infty,-1)\cup(3,\infty)$	☐ $(-3,1)$ ☐ $(-\infty,-3)\cup(1,\infty)$ ☐ $(-1,3)$
14) The function $f(x)=x^3+3x^2-9x+1$ has a relative maximum value	
☐ $(-1,12)$	☐ $(3,28)$ ☐ $(1,-4)$ ☐ $(-3,28)$
15) The function $f(x)=x^3+3x^2-9x+1$ has a relative minimum value	
☐ $(-1,12)$	☐ $(3,28)$ ☐ $(1,-4)$ ☐ $(-3,28)$
16) The graph of $f(x)=x^3+3x^2-9x+1$ concave upward on	
☐ $(-1,\infty)$	☐ $(1,\infty)$ ☐ $(-\infty,-1)$ ☐ $(-\infty,1)$
17) The graph of $f(x)=x^3+3x^2-9x+1$ concave downward on	
☐ $(-1,\infty)$	☐ $(1,\infty)$ ☐ $(-\infty,-1)$ ☐ $(-\infty,1)$
18) The function $f(x)=x^3+3x^2-9x+1$ has an inflection point at	
☐ $(1,4)$	☐ $(1,-4)$ ☐ $(-1,5)$ ☐ $(-1,12)$
19) The critical numbers of the function $f(x)=x^3-3x^2-9x+1$ are	
☐ $-1,3$	☐ $-3,1$ ☐ ± 3 ☐ ± 1
20) The function $f(x)=x^3-3x^2-9x+1$ is decreasing on	
☐ $(-\infty,-1)\cup(3,\infty)$	☐ $(-3,1)$
☐ $(-\infty,-3)\cup(1,\infty)$	☐ $(-1,3)$

21)	The function $f(x) = x^3 - 3x^2 - 9x + 1$ is increasing on			
☐ A	$(-\infty, -1) \cup (3, \infty)$	☐ B	$(-3, 1)$	☐ C $(-\infty, -3) \cup (1, \infty)$ ☐ D $(-1, 3)$
22)	The function $f(x) = x^3 - 3x^2 - 9x + 1$ has a relative maximum value at the point			
☐ A	$(1, -10)$	☐ B	$(3, -26)$	☐ C $(-1, 6)$ ☐ D $(-3, -26)$
23)	The function $f(x) = x^3 - 3x^2 - 9x + 1$ has a relative minimum value at the point			
☐ A	$(1, -10)$	☐ B	$(3, -26)$	☐ C $(-1, 6)$ ☐ D $(-3, -26)$
24)	The graph of $f(x) = x^3 - 3x^2 - 9x + 1$ concave upward on			
☐ A	$(-1, \infty)$	☐ B	$(1, \infty)$	☐ C $(-\infty, -1)$ ☐ D $(-\infty, 1)$
25)	The graph of $f(x) = x^3 - 3x^2 - 9x + 1$ concave downward on			
☐ A	$(-1, \infty)$	☐ B	$(1, \infty)$	☐ C $(-\infty, -1)$ ☐ D $(-\infty, 1)$
26)	The function $f(x) = x^3 - 3x^2 - 9x + 1$ has an inflection point at			
☐ A	$(-1, 6)$	☐ B	$(1, -10)$	☐ C $(-1, -12)$ ☐ D $(1, 8)$
27)	The critical numbers of the function $f(x) = x^3 + 3x^2 - 9x + 5$ are			
☐ A	$-1, 3$	☐ B	$-3, 1$	☐ C ± 3 ☐ D ± 1
28)	The function $f(x) = x^3 + 3x^2 - 9x + 5$ is decreasing on			
☐ A	$(-1, 3)$	☐ B	$(-3, 1)$	☐ C $(-\infty, -3) \cup (1, \infty)$ ☐ D $(-\infty, -1) \cup (3, \infty)$
29)	The function $f(x) = x^3 + 3x^2 - 9x + 5$ is increasing on			
☐ A	$(-1, 3)$	☐ B	$(-3, 1)$	☐ C $(-\infty, -3) \cup (1, \infty)$ ☐ D $(-\infty, -1) \cup (3, \infty)$
30)	The function $f(x) = x^3 + 3x^2 - 9x + 5$ has a relative minimum value at the point			
☐ A	$(1, 0)$	☐ B	$(-3, 22)$	☐ C $(1, 1)$ ☐ D $(-3, 32)$
31)	The function $f(x) = x^3 + 3x^2 - 9x + 5$ has a relative maximum value at the point			
☐ A	$(1, 0)$	☐ B	$(-3, 22)$	☐ C $(1, 1)$ ☐ D $(-3, 32)$
32)	The function $f(x) = x^3 + 3x^2 - 9x + 5$ has an inflection point at			
☐ A	$(-1, 16)$	☐ B	$(1, 16)$	
☐ C	$(-1, 10)$	☐ D	$(1, 0)$	

33)	The graph of $f(x) = x^3 + 3x^2 - 9x + 5$ concave downward on			
☐ A	$(-1, \infty)$	☐ B	$(1, \infty)$	☐ C $(-\infty, -1)$ ☐ D $(-\infty, 1)$
34)	The graph of $f(x) = x^3 + 3x^2 - 9x + 5$ concave upward on			
☐ A	$(-1, \infty)$	☐ B	$(1, \infty)$	☐ C $(-\infty, -1)$ ☐ D $(-\infty, 1)$
35)	The critical numbers of the function $f(x) = x^3 - 3x^2 - 9x + 5$ are			
☐ A	$-1, 3$	☐ B	$-3, 1$	☐ C ± 3 ☐ D ± 1
36)	The function $f(x) = x^3 - 3x^2 - 9x + 5$ is increasing on			
☐ A	$(-1, 3)$	☐ B	$(-3, 1)$	☐ C $(-\infty, -3) \cup (1, \infty)$ ☐ D $(-\infty, -1) \cup (3, \infty)$
37)	The function $f(x) = x^3 - 3x^2 - 9x + 5$ is decreasing on			
☐ A	$(-1, 3)$	☐ B	$(-3, 1)$	☐ C $(-\infty, -3) \cup (1, \infty)$ ☐ D $(-\infty, -1) \cup (3, \infty)$
38)	The function $f(x) = x^3 - 3x^2 - 9x + 5$ has a relative maximum value at the point			
☐ A	$(-1, 10)$	☐ B	$(3, -22)$	☐ C $(-1, -9)$ ☐ D $(3, 32)$
39)	The function $f(x) = x^3 - 3x^2 - 9x + 5$ has a relative minimum value at the point			
☐ A	$(-1, 10)$	☐ B	$(3, -22)$	☐ C $(-1, -9)$ ☐ D $(3, 32)$
40)	The graph of $f(x) = x^3 - 3x^2 - 9x + 5$ concave upward on			
☐ A	$(-1, \infty)$	☐ B	$(1, \infty)$	☐ C $(-\infty, -1)$ ☐ D $(-\infty, 1)$
41)	The graph of $f(x) = x^3 - 3x^2 - 9x + 5$ concave downward on			
☐ A	$(-1, \infty)$	☐ B	$(1, \infty)$	☐ C $(-\infty, -1)$ ☐ D $(-\infty, 1)$
42)	The function $f(x) = x^3 - 3x^2 - 9x + 5$ has an inflection point at			
☐ A	$(-1, 10)$	☐ B	$(1, -6)$	☐ C $(-1, -9)$ ☐ D $(1, -10)$
43)	The critical numbers of the function $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ are			
☐ a	$1, 2$	☐ b	$-2, 1$	☐ c $-1, 2$ ☐ d $-1, -2$
44)	The function $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ is increasing on			
☐ a	$(-1, 2)$	☐ b	$(-\infty, -2) \cup (1, \infty)$	☐ c $(-2, 1)$ ☐ d $(-\infty, -1) \cup (2, \infty)$

45)	The function $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ is decreasing on		
☐ a	☐ b	☐ c	☐ d
(-1,2)	$(-\infty, -2) \cup (1, \infty)$	(-2,1)	$(-\infty, -1) \cup (2, \infty)$
46)	The function $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ has a relative maximum point		
☐ a	☐ b	☐ c	☐ d
$(1, -\frac{7}{6})$	$(-1, \frac{13}{6})$	$(-2, \frac{1}{3})$	$(2, -\frac{7}{3})$
47)	The function $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ has a relative minimum point		
☐ a	☐ b	☐ c	☐ d
$(1, -\frac{7}{6})$	$(-1, \frac{13}{6})$	$(-2, \frac{1}{3})$	$(2, -\frac{7}{3})$
48)	The graph of $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ concave upward on		
☐ a	☐ b	☐ c	☐ d
$(-\infty, -\frac{1}{2})$	$(-\infty, \frac{1}{2})$	$(-\frac{1}{2}, \infty)$	$(\frac{1}{2}, \infty)$
49)	The graph of $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ concave downward on		
☐ a	☐ b	☐ c	☐ d
$(-\infty, -\frac{1}{2})$	$(-\infty, \frac{1}{2})$	$(-\frac{1}{2}, \infty)$	$(\frac{1}{2}, \infty)$
50)	The function $f(x) = \frac{1}{3}x^3 - \frac{1}{2}x^2 - 2x + 1$ has an inflection point at		
☐ a	☐ b	☐ c	☐ d
$(\frac{1}{2}, -\frac{1}{12})$	$(\frac{1}{2}, \frac{1}{12})$	$(-\frac{1}{2}, \frac{11}{6})$	$(-\frac{1}{2}, -\frac{11}{6})$
51)	The critical numbers of the function $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ are		
☐ a	☐ b	☐ c	☐ d
1,2	-2,1	-1,2	-1,-2
52)	The function $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ is increasing on		
☐ a	☐ b	☐ c	☐ d
(-1,2)	$(-\infty, -2) \cup (1, \infty)$	(-2,1)	$(-\infty, -1) \cup (2, \infty)$
53)	The function $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ is decreasing on		
☐ a	☐ b	☐ c	☐ d
(-1,2)	$(-\infty, -2) \cup (1, \infty)$	(-2,1)	$(-\infty, -1) \cup (2, \infty)$
54)	The function $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ has a relative maximum point		
☐ a	☐ b	☐ c	☐ d
$(1, -\frac{1}{6})$	$(-1, \frac{19}{6})$	$(-2, \frac{13}{3})$	$(2, \frac{5}{3})$

55)	The function $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ has a relative minimum point						
☐ a	$(1, -\frac{1}{6})$	☐ b	$(-1, \frac{19}{6})$	☐ c	$(-2, \frac{13}{3})$	☐ d	$(2, \frac{5}{3})$
56)	The graph of $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ concave upward on						
☐ a	$(-\infty, -\frac{1}{2})$	☐ b	$(-\infty, \frac{1}{2})$	☐ c	$(-\frac{1}{2}, \infty)$	☐ d	$(\frac{1}{2}, \infty)$
57)	The graph of $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ concave downward on						
☐ a	$(-\infty, -\frac{1}{2})$	☐ b	$(-\infty, \frac{1}{2})$	☐ c	$(-\frac{1}{2}, \infty)$	☐ d	$(\frac{1}{2}, \infty)$
58)	The function $f(x) = \frac{1}{3}x^3 + \frac{1}{2}x^2 - 2x + 1$ has an inflection point at						
☐ a	$(\frac{1}{2}, -\frac{1}{12})$	☐ b	$(\frac{1}{2}, \frac{1}{6})$	☐ c	$(-\frac{1}{2}, \frac{25}{12})$	☐ d	$(-\frac{1}{2}, \frac{49}{24})$
59)	The critical numbers of the function $f(x) = x^3 - 12x + 3$ are						
☐ A	$x = -2, x = 2$	☐ B	$x = -6, x = 6$	☐ C	$x = 2$	☐ D	$x = -2$
60)	The function $f(x) = x^3 - 12x + 3$ is increasing on						
☐ A	$(2, \infty)$	☐ B	$(-2, 2)$	☐ C	$(-\infty, -2) \cup (2, \infty)$	☐ D	$(-\infty, -2)$
61)	The function $f(x) = x^3 - 12x + 3$ is decreasing on						
☐ A	$(2, \infty)$	☐ B	$(-2, 2)$	☐ C	$(-\infty, -2) \cup (2, \infty)$	☐ D	$(-\infty, -2)$
62)	The function $f(x) = x^3 - 12x + 3$ has a relative maximum point at						
☐ A	$(-2, 19)$	☐ B	$(-2, -19)$	☐ C	$(2, -13)$	☐ D	$(2, 13)$
63)	The function $f(x) = x^3 - 12x + 3$ has a relative minimum point at						
☐ A	$(-2, 19)$	☐ B	$(-2, -19)$	☐ C	$(2, -13)$	☐ D	$(2, 13)$
64)	The graph of $f(x) = x^3 - 12x + 3$ concave upward on						
☐ A	$(0, \infty)$	☐ B	$(-\infty, 0)$	☐ C	$(-\infty, 1)$	☐ D	$(1, \infty)$
65)	The graph of $f(x) = x^3 - 12x + 3$ concave downward on						
☐ A	$(0, \infty)$	☐ B	$(-\infty, 0)$	☐ C	$(-\infty, 1)$	☐ D	$(1, \infty)$
66)	The function $f(x) = x^3 - 12x + 3$ has an inflection point at						
☐ A	$(0, -12)$	☐ B	$(0, 0)$				
☐ C	$(3, 0)$	☐ D	$(0, 3)$				

67)	The critical numbers of the function $f(x) = x^3 - 3x^2 + 1$ are			
☐ A	$x = -2, x = 0$	☐ B	$x = 0, x = 2$	☐ C $x = 2$ ☐ D $x = 0$
68)	The function $f(x) = x^3 - 3x^2 + 1$ is increasing on			
☐ A	$(2, \infty)$	☐ B	$(0, 2)$	☐ C $(-\infty, 0) \cup (2, \infty)$ ☐ D $(-\infty, 0)$
69)	The function $f(x) = x^3 - 3x^2 + 1$ is decreasing on			
☐ A	$(2, \infty)$	☐ B	$(0, 2)$	☐ C $(-\infty, 0) \cup (2, \infty)$ ☐ D $(-\infty, 0)$
70)	The function $f(x) = x^3 - 3x^2 + 1$ has a relative maximum point at			
☐ A	$(2, -3)$	☐ B	$(0, 1)$	☐ C $(-2, 0)$ ☐ D $(0, 0)$
71)	The function $f(x) = x^3 - 3x^2 + 1$ has a relative minimum point at			
☐ A	$(2, -3)$	☐ B	$(0, 1)$	☐ C $(-2, 0)$ ☐ D $(0, 0)$
72)	The graph of $f(x) = x^3 - 3x^2 + 1$ concave upward on			
☐ A	$(-\infty, -1)$	☐ B	$(-\infty, 1)$	☐ C $(1, \infty)$ ☐ D $(-1, \infty)$
73)	The graph of $f(x) = x^3 - 3x^2 + 1$ concave downward on			
☐ A	$(-\infty, -1)$	☐ B	$(-\infty, 1)$	☐ C $(1, \infty)$ ☐ D $(-1, \infty)$
74)	The function $f(x) = x^3 - 3x^2 + 1$ has an inflection point at			
☐ A	$(1, 1)$	☐ B	$(1, 0)$	☐ C $(1, -1)$ ☐ D $(-1, -3)$
75)	The critical numbers of the function $f(x) = x^3 - 3x^2 + 2$ are			
☐ a	$-2, 0$	☐ b	$0, 2$	☐ c 2 ☐ d 0
76)	The function $f(x) = x^3 - 3x^2 + 2$ is increasing on			
☐ a	$(-2, 0)$	☐ b	$(-\infty, -2) \cup (0, \infty)$	☐ c $(0, 2)$ ☐ d $(-\infty, 0) \cup (2, \infty)$
77)	The function $f(x) = x^3 - 3x^2 + 2$ is decreasing on			
☐ a	$(-2, 0)$	☐ b	$(-\infty, -2) \cup (0, \infty)$	☐ c $(0, 2)$ ☐ d $(-\infty, 0) \cup (2, \infty)$
78)	The function $f(x) = x^3 - 3x^2 + 2$ has a relative minimum point at			
☐ a	$(0, 2)$	☐ b	$(-2, -18)$	☐ c $(0, 1)$ ☐ d $(2, -2)$
79)	The function $f(x) = x^3 - 3x^2 + 2$ has a relative maximum point at			
☐ a	$(0, 2)$	☐ b	$(-2, -18)$	☐ c $(0, 1)$ ☐ d $(2, -2)$
80)	The graph of $f(x) = x^3 - 3x^2 + 2$ concave downward on			
☐ a	$(-\infty, 1)$	☐ b	$(-\infty, -1)$	☐ c $(1, \infty)$ ☐ d $(-1, \infty)$

81)	The graph of $f(x) = x^3 - 3x^2 + 2$ concave upward on			
☐ a	$(-\infty, 1)$	☐ b	$(-\infty, -1)$	☐ c $(1, \infty)$ ☐ d $(-1, \infty)$
82)	The function $f(x) = x^3 - 3x^2 + 2$ has an inflection point at			
☐ a	$(1, 0)$	☐ b	$(1, -1)$	☐ c $(0, 2)$ ☐ d $(-1, -2)$
83)	The critical numbers of the function $f(x) = x^3 - 6x^2 - 36x$ are			
☐ A	$-2, 6$	☐ B	$-6, 2$	☐ C $-6, -2$ ☐ D $2, 6$
84)	The function $f(x) = x^3 - 6x^2 - 36x$ is decreasing on			
☐ A	$(-\infty, -6) \cup (2, \infty)$	☐ B	$(-2, 6)$	☐ C $(-\infty, -2) \cup (6, \infty)$ ☐ D $(-6, 2)$
85)	The function $f(x) = x^3 - 6x^2 - 36x$ is increasing on			
☐ A	$(-\infty, -6) \cup (2, \infty)$	☐ B	$(-2, 6)$	☐ C $(-\infty, -2) \cup (6, \infty)$ ☐ D $(-6, 2)$
86)	The function $f(x) = x^3 - 6x^2 - 36x$ has a relative minimum value at the point			
☐ A	$(2, -88)$	☐ B	$(-2, 40)$	☐ C $(6, -216)$ ☐ D $(-6, -216)$
87)	The function $f(x) = x^3 - 6x^2 - 36x$ has a relative maximum value at the point			
☐ A	$(2, 88)$	☐ B	$(-2, 40)$	☐ C $(6, -216)$ ☐ D $(-6, -216)$
88)	The function $f(x) = x^3 - 6x^2 - 36x$ has an inflection point at			
☐ A	$(2, 88)$	☐ B	$(-2, -40)$	☐ C $(-2, 40)$ ☐ D $(2, -88)$
89)	The graph of $f(x) = x^3 - 6x^2 - 36x$ concave downward on			
☐ A	$(-2, \infty)$	☐ B	$(2, \infty)$	☐ C $(-\infty, -2)$ ☐ D $(-\infty, 2)$
90)	The graph of $f(x) = x^3 - 6x^2 - 36x$ concave upward on			
☐ A	$(-2, \infty)$	☐ B	$(2, \infty)$	☐ C $(-\infty, -2)$ ☐ D $(-\infty, 2)$
91)	The critical numbers of the function $f(x) = -x^3 - 6x^2 - 9x + 1$ are			
☐ A	$-3, 1$	☐ B	$-3, -1$	☐ C $1, 3$ ☐ D $-1, 3$
92)	The function $f(x) = -x^3 - 6x^2 - 9x + 1$ is decreasing in			
☐ A	$(-\infty, -3) \cup (-1, \infty)$	☐ B	$(-3, -1)$	☐ C $(-\infty, 1) \cup (3, \infty)$ ☐ D $(1, 3)$
93)	The function $f(x) = -x^3 - 6x^2 - 9x + 1$ is increasing in			
☐ A	$(-\infty, -3) \cup (-1, \infty)$	☐ B	$(-3, -1)$	
☐ C	$(-\infty, 1) \cup (3, \infty)$	☐ D	$(1, 3)$	

94) The function $f(x) = -x^3 - 6x^2 - 9x + 1$ has a relative minimum value at the point			
☐ A	(3, -107)	☐ B	(1, 15)
☐ C	(-1, 5)	☐ D	(-3, 1)
95) The function $f(x) = -x^3 - 6x^2 - 9x + 1$ has a relative maximum value at the point			
☐ A	(3, -107)	☐ B	(1, 15)
☐ C	(-1, 5)	☐ D	(-3, 1)
96) The function $f(x) = -x^3 - 6x^2 - 9x + 1$ has an inflection point at			
☐ A	(2, -40)	☐ B	(-2, -40)
☐ C	(-2, 3)	☐ D	(2, 3)
97) The graph of $f(x) = -x^3 - 6x^2 - 9x + 1$ concave downward on			
☐ A	(-2, ∞)	☐ B	(2, ∞)
☐ C	($-\infty$, -2)	☐ D	($-\infty$, 2)
98) The graph of $f(x) = -x^3 - 6x^2 - 9x + 1$ concave upward on			
☐ A	(-2, ∞)	☐ B	(2, ∞)
☐ C	($-\infty$, -2)	☐ D	($-\infty$, 2)