



8 am n3 -32 -9x +12.
gam Find the maximum & orinimum
10 am
Angl - f(n) = n3 -3n2 - 9n +12
12 noon = 33 -3n2 -9n +12
1 pm (2) = \$2 - 6000
2 pm £ (n) = 3n2 -6n -9 =0,
$\Rightarrow n - 2n - 3 = 0$
$= \frac{1}{2} n^2 + n - 3n - 3 = D$
5 pm
$= \left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right) \left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right) = 0$
Eve. $ \mathcal{M} = 3$
$\mathcal{M} = -1$ IMPORTANT NOTES
i. f/(n) = n2-2n-3

Orotinex®



f'(n) = 2m - 2	8 am
32N-2	9 am
Substituting n=3,	10 am
$\Rightarrow 2(3)-2$	11 am
	12 noon
\Rightarrow 6-2	1 pm
) Y.	2 pm
f (n) > 0	3 pm
n = 4 18 minima.	4 pm
f'(n) = 2n - 2	5 pm
substituting n=-1	6 pm
= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$	Eve.
PORTANT NOTES \Rightarrow $-2-2$	
$=$ 1 $=$ \vee	1
0//(1)	maximo

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8 am (2)	Collabore the slope.
9 am	(-1,-1), $(3,8)$
10 am Sl	ofe = m = y2-y,
11 am	7/2-ng
12 noon	= 8 -(-1)
1 pm	3 - (-1)
2 pm	= 8+1 9
3 pm	3+1 4.
4 pm	$m = \frac{9}{4}$
5 pm	
5 pm	
Eve.	
IMPORTANT NO	DTES

protineX'



3) solve w(Z) w(Z) = 4Z-5 8 am 9 am 10 am Buotlet Rule 11 am 12 noon 1 pm 2 pm (Z-Z) d (4Z 5) -

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3) × (m) = 2n³ + 6n² +3n.

9 am Find conticol Points & venity

10 maxima or minima.

11 am $f(n) = 2n^3 + 6n^2 + 3n$

 $\frac{12 \text{ noon } f(n) = 6n^2 + 12n + 3}{12 \text{ noon } f(n) = 6n^2 + 12n + 3}$

1 pm - 3 6n2 +12n +3 20

2 pm

>> 2n2 + 4n +1 =0

3 pm

4 pm

on =2 b=4, C=9

6 pm N= -b + 1 b2 -400C

Eve.

 $=-4\pm\sqrt{16-4(2)(1)}$

IMPORTANT NOTES

> - 41 V 16 - 8

JULY F S S M T W T W T F S S M T W T W T F S S M T W T F S S M T W T W T T F S S M T W T W T T F S S M T W T W T T F S S M T W T W T T F S S M T W T W T T F S S M T W T W T F S S M T W T W T T F S S M T W T W T T F S S S M T W T W T T F

protineX*



-4+18 8 am 9 am (n) = 2n2 + un 1 pm 2 pm = 4x 2 y 3 pm got + 1 = D 4 pm Substituting n= 5 pm 6 pm Eve. Substitution n, = IMPORTANT NOTES ((Y) = - 1 ~ 70 0,40 -0029 y mmg

S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W AUG 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 20 11

protineX.



My = 2m, 2 + 2m, M2 + 2m2 + 6m, som parotial donvative. Dy = 4n, + 2n2 + 6 = 21, + 12 = -3-3y = 41/2 + 2x, ~~ $\frac{3}{2} \frac{2}{2} \frac{1}{2} + \frac{1}{2} = \frac{2}{2} \frac{1}{2}$ Solving land $\frac{2}{2} \frac{2}{2}$. $2(-2x_2) + x_2 = -3$ 5 pm $= -4\pi_2 + \pi_2 = -3$ 6 pm $\frac{1}{2}$ $-3x_{7}$ = -3. i. n. = -2(1) =

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