	Date:
	Find the maximum and minimum of $f(x,y,t) = 6y-2t$ subject
	to the constraints $x-2y-2z=2$ and $x^2+y^2=1$
•>	Lagrangian formula
	Vf(x,y,z)=V29, (x,y,z)+V492(x,y,z)
	Vfx = V2 gix + J Mg2x - 0 = 2 + 2xy 0
	√fy=√79,y+√M92y → 6=-27+2yM €
	Vfz=V2912+VM922 -0 -2=-22 3
	dari persamaan 3), didapatkan 2=1, kemudian substitusi ke persamaan
	(1) dan (2)
	① $-1 = 2 \times 11 - 0 \times = -\frac{1}{211}$ 7 substitusi ke $9z = x^2 + y^2 = 1$
	(2) $6 = -2 + 2yy \rightarrow y = \frac{8}{2y}$
	$\left(-\frac{1}{24}\right)^{2} + \left(\frac{8}{24}\right)^{2} = 1$
	$\frac{1}{44^2} + \frac{64}{44^2} = 1$
	1 + 64 = 4M2.
	$u = \pm \sqrt{\frac{65}{4}}$ — substitue re x dan y.
	V4
	Maka didapatran nilai x dan y yaihu.
	$x=\pm\frac{1}{4}$ $y=\pm\frac{8}{4}$
	$x = \pm \frac{1}{\sqrt{65}}$ $y = \pm \frac{8}{\sqrt{65}}$
	Substitute re 9, = x-2y-27=2.

No.

No.

Date:

didapatran 4 Mai, yaihu.

('165, 8/165,
$$\frac{-15-2565}{2\sqrt{65}}$$
)

(-1/165, -8/165, $\frac{15-2\sqrt{65}}{2\sqrt{65}}$)

(-1/165, 8/165, $\frac{15-2\sqrt{65}}{2\sqrt{65}}$)

(1/165, -8/165, $\frac{17-2\sqrt{65}}{2\sqrt{65}}$)

didapatran 4 thic, yaihu

('1/165, 8/165, $\frac{15-2\sqrt{65}}{2\sqrt{65}}$) $\frac{-9}{6(x,y,z)} = \frac{9}{3}$ 81

 $\frac{2\sqrt{65}}{2\sqrt{65}}$

(-1/165, 8/165, $\frac{15-2\sqrt{65}}{2\sqrt{65}}$) $\frac{-9}{6(x,y,z)} = \frac{-5}{3}$ 88

(-1/165, 8/165, $\frac{-17-2\sqrt{65}}{2\sqrt{65}}$) $\frac{-9}{6(x,y,z)} = \frac{10}{3}$ 966