## Latihan Soal 3

KUZ Tutor

Potal	diferential of
W =	x4y3 z2+ x3y2+x2+y+3
	(2,1,1)

$$\frac{df}{dm} = \frac{9x}{9m} qx^{1} \frac{9\lambda}{9m} qx^{1} \frac{9s}{9m} qs$$

$$\frac{\partial w}{\partial x} = y^{3} z^{1} (y^{3} + y^{1}) x^{2} + 22x$$

$$= 32 + 12 + 4 = 48$$

$$\frac{\partial W}{\partial y} = x^4 z^2 3y^2 + x^3 2y + 1$$

$$= (6 (9) + 8 (2) + 1$$

$$= 65$$

$$\frac{30}{32} = \frac{16(2)}{1} + \frac{1}{4}$$

a) veletor gradient 
$$\nabla f(p)$$

$$\nabla f(x,y) = \frac{\partial f}{\partial x} = \frac{\partial f}{\partial y}$$

$$u_1 2 - u_2 4 = |u| = 1$$

$$\frac{-1}{-\sqrt{2\delta}} \frac{u_1 2 - u_2 4}{-\sqrt{2\delta}} = |u| = 1$$

Bidang singgung 
$$Z = x^2 + y^2$$
; (1,1,2)

$$= 2 + 1 \times -2 + 2 y - 2$$

$$= 2 \times + 2 y - 2$$