D/3 k y poly Se 8

(1) 
$$4 = \sqrt{y \cdot \sin x}$$
 $\sqrt{y - \sin x}$ 
 $\sqrt{y - \cos x}$ 
 $\sqrt$ 

Ban 2 
$$\frac{1}{2}$$
  $\frac{1}{2}$   $\frac{1}{2}$ 

(4) Playming racinise upont-be op-us.

A)  $z = e^{x^2 + y^2}$ .  $(2x + 0) = 2x \cdot e^{x^2 + y^2}$ .  $z_x^2 = e^{x^2 + y^2} \cdot (0 + 2y) = 2y \cdot e^{x^2 + y^2}$ .

AZ=0,1787.0,2+4y.Z=0,4.

2) 
$$U = X^{\frac{1}{3}} + (xy)^{\frac{1}{3}} + z^{\frac{1}{3}}$$
 $U_{x} = y \cdot x^{\frac{1}{3}-1} + y^{\frac{1}{3}} \cdot z \cdot x^{\frac{1}{3}-1} + z^{\frac{1}{3}} \cdot y \cdot \ln(z)$ 
 $U_{x} = X^{\frac{1}{3}} \cdot \ln(x) + x^{\frac{1}{3}} \cdot z \cdot y \cdot 1 + z^{\frac{1}{3}} \cdot x \cdot \ln(z)$ 
 $U_{x} = O + (xy)^{\frac{1}{3}} \cdot \ln(xy) + x \cdot y \cdot z \cdot x^{\frac{1}{3}-1}$ 

Bioenceume operations of the end of the end

(3)

3) 
$$\sqrt{(g_{1}n^{2}1.55 + g_{2}e^{0.045})^{5}}$$
  
 $f(x_{1}y) = \sqrt{(g_{1}h^{2}x + g_{2}e^{y})^{5}}$ ,  $x = 1.55$ ,  $y = 0.015$   
 $x_{0} = 1.57$ ,  $y_{0} = 0$   
 $f(x_{0}|y_{0}) = \sqrt{(g_{1}h^{2}1.57 + g_{2}e^{y})^{5}} = \sqrt{g_{0}^{5}} = 243$   
 $A = x - x_{0} = -0.02$   $A = y - y_{0} = 0 - 0.015 = -0.015$   
 $f_{x}^{1} = \frac{5}{2} \cdot (g_{1}n^{2}x + g_{2}e^{y})^{\frac{3}{2}} \cdot g_{1}^{2} \cdot g_{2}^{2} \cdot g_{1}^{2} \cdot g_{2}^{2} \cdot g$