Q9) 
$$((e^{x}+y^{2})dx + (e^{y}+x^{2})dy$$
  $y=x^{2}$ 
 $y$ 

(a1) 
$$y^2 - 3 = x$$

$$\frac{x = y + 1}{y^2 - 3 = y + 1}$$

$$\frac{y^2}{y^2} = y + 4$$

$$y^{2}-2y-8=0$$
  
 $y=4$ ,  $y=-2$   
 $z=5$ ,  $x=-1$ 

$$y=\frac{1}{2}x=y+1$$

$$y=2$$

$$y=2$$

$$y=2$$

$$y=2$$

$$y=3$$

$$y=3$$

$$y=1$$

$$y=3$$

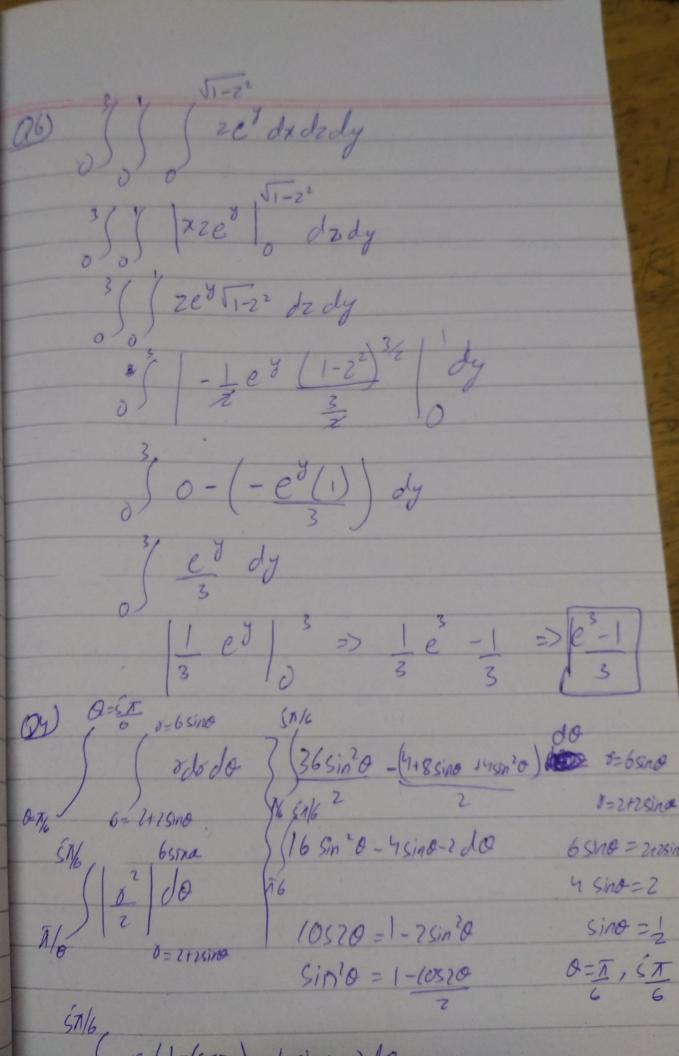
$$y=1$$

$$\frac{1}{2} \left( \frac{y(y+1)^{2} - y(y^{2} - 3)^{2}}{2} \right) dy$$

Q2) 
$$\begin{cases} 2x+y^2 & dA \end{cases}$$
  $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $2x+y^2 & dx & dy$ 
 $y=1 & y=1$ 
 $2x+y^2 \times y^2 & dy$ 
 $y^3+y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
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 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
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 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^2(y-1) = 0$ 
 $y^2 = y^3$ 
 $y^3-y^2 = 0$ 
 $y^3-y^3 = 0$ 
 $y^3$ 

y=Sind ) cos x J I + ces = x dydx 7= 0x siny ->: x= sin'(y)  $\chi = \overline{\Lambda}$ y 605 x 1+ 1052 x y=5inx y=0 -2 Sinx 105 x SI+ccs2 x dx - (1+(c322) 3/2 /= 1/2 2 x 3/4 /=0 (1+(cx2x) 1/2) The

8=2 coso 8= T/4 2 o sino o dedo x=8 8050 y= osino (o (050-1) 2 + (85ino) = 1 82 (0520 - 28 (050 + X + 82 SIN20 = X 62-28 COSO = 0 8(8-2(0s0)=0 8=21050 Q= 1/4 8= 2000 16 x los 9 1/9



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