Solution:
$$\frac{\partial uiz - 2}{\partial x - \partial y + ix^{2}} dz$$

$$\frac{\partial uiz - 2}{\partial x - y + ix^{2}} dz$$

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$$\int_{0}^{2} (x-0+ix^{2}) dx$$

$$= \int_{0}^{2} x^{2} + i \frac{x^{3}}{3} \Big|_{0}^{2} = \frac{1}{2} + \frac{i}{3}$$
Along MP:  $Z = x+iy = 1+iy$ 

$$\therefore dz = idy$$

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$$\int_{0}^{2} (x-y+ix^{2}) dz = \int_{0}^{2} (1-y+i) idy = \int_{0}^{2} (i-iy-i) dy$$

$$= \int_{0}^{2} (1-y+i) idy = \int_{0}^{2} (1-iy-i) dy$$

$$= \int_{0}^{2} (1-i$$

Dolution: Always the Curve 
$$y = 2x^{2}$$
,  $z = n + iy = x + aix^{2}$   
 $z = x + aix^{2}$   

G-8 Evaluate Vim 
$$\frac{2^3+(1-3i)^2+(1-3)^2+2+i}{2-i}$$
 Usin LH Rule  $\frac{32^n+2(1-3i)^2+(1-3)+0+0}{1-0}$ 
 $\frac{32^n+2(1-3i)^2+(1-3)+0+0}{1-0}$ 
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 $\frac{32^n+2(1-3i)^2+2+i}{1-3}$ 
 $\frac{3$ 

According to 
$$CR$$
 equation
$$V_{x} = -Uy = -\frac{2y}{x^{2}+y^{2}} - C$$
And  $U_{x} = V_{y} = \frac{2x}{x^{2}+y^{2}}$ 

And 
$$U_n = \frac{2\pi}{x^2 + y^2}$$

$$a = \frac{1}{2^{2}} = \frac{1}{2^{2}+y^{2}}$$

$$a = \frac{1}{2^{2}+y^{2}} = \frac{$$

$$g = \int \frac{2\pi}{2^{n}+y^{n}} dy = 2 \int \sin^{1}(\frac{y}{2}\pi) + \frac{g(\pi)}{2}$$

$$0 = \int \frac{2\pi}{2^{n}+y^{n}} dy = 2 \int \sin^{1}(\frac{y}{2}\pi) + \frac{g'(\pi)}{2}$$

$$\frac{1}{1+\frac{y'_{k}$$

From () 2 (1)
$$y'(x) = 0$$

$$-\frac{2y}{x^2 + y^2} + g'(x) - (i)$$

$$g'(x) = 0$$

$$-\frac{2y}{x^2 + y^2} + g'(x) - (i)$$

$$-\frac{2y}{x^2 + y^2} + g'(x)$$

$$-\frac{2y}{x^2 + y^2} + g'(x$$

$$\begin{cases} \frac{2-5}{4} & \int (x^2+y^2) dx & \partial x = 2+i, \ \frac{2}{2} = -1-i \end{cases}$$

$$\begin{cases} \frac{2}{4}, \frac{2}{2} & \frac{2}{4} = 2+i, \ \frac{2}{4} = -1-i \end{cases}$$

ZZ = 2 + y : Let, f(2) = x + y Parametric equation of a line joiney 2, and 22 is 2(1) = 2(1-t) + 2t =(2+i)(1-t)+(-1-i)t= (-3-2i)t + 2+i $-\frac{1}{2} = (-3+2i)t + 2-i$ 

=-4-83i