1. Given: $u = -x$, $v = 2y$ and $w = 3 - 2$

~~We can write~~

~~$\frac{dx}{dx}dx + \frac{dy}{dy}dy + \frac{dw}{dz}dz \geq 0$~~

~~$\frac{dy}{dx} = 1 \quad \frac{dv}{dy} = 2 \quad \frac{dw}{dz} = -1$~~

$$\frac{du}{a} = \frac{dy}{v} = \frac{dz}{w}$$

$$\frac{dy}{du} = \frac{2y}{-x}$$

$$2\ln\sqrt{y} = -\ln x + \frac{1}{x}$$

$$\sqrt{y} = \frac{1}{x} + C \qquad C = 0$$

$$\sqrt{y} = \frac{1}{x}$$

$$\frac{1}{2}\ln y = -\ln|3-2|$$

$$\sqrt{y} = \frac{1}{3-2} + C \qquad C = 0$$

$$\Rightarrow \sqrt{y} = \frac{1}{3-2}$$

$\Rightarrow \nu y = \frac{1}{u} = \frac{1}{3-2}$

$y = \frac{1}{u^2} = \frac{1}{(3-2)^2} \cdot \theta = 1$ is the streamline passing through

$(1, 1, 2)$.