







$$u_x = \frac{dx}{dt}$$

$$u_y = \frac{dy}{dt}$$

$$u_z = \frac{dz}{dt}$$

$$x' = x - vt$$

$$\frac{dx'}{dt'} = \frac{dx}{dt} - v$$

$$\tan \theta = \frac{3}{4} = \frac{\sin \theta}{\cos \theta}$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\sin \theta = \frac{3}{5}$$

$$\cos \theta = \frac{4}{5}$$

$$u_x = u \cos \theta$$

$$u_y = u \sin \theta$$

