$$\frac{dv}{dx} = 2\cos 2x$$

$$\frac{dy}{dv} = -3\cos^2 v \sin v$$

Commercial Comment of the second of the second

$$\frac{dy}{dv} \frac{dv}{dx} = -\frac{3}{2}(\cos^2(\sin^2 2x))(\sin(\sin 2x)). (2\cos 2x)$$

$$= -6\cos^2(\sin 2x). \sin(\sin 2x)\cos 2x$$