$$\frac{1}{2} y \cos 2x - y \sin x dx + (\sin 2x + \cos x) dy = 0$$

$$\frac{1}{2} M = 2y \cos 2x - y \sin x dx dx + \sin 2x + \cos x$$

$$\frac{1}{2} M_{y} = 2 \cos 2x - \sin x dx dx dx dx$$

$$\frac{1}{2} M_{y} = N_{x} - y \cos 2x - y \sin x dx dx$$

$$\frac{1}{2} M_{y} = N_{x} - y \cos 2x - y \sin x dx dx$$

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