

(15)

$$2y - \sin x \sinh y + h'(x) = 2y - \sin x \sinh y$$

$$\Rightarrow h'(x) = 0 \Rightarrow h = C$$

$$\text{Hence } v = 2xy + \cos x \sinh y + C$$

$$g(z) = x^2 - y^2 + \sin x \cosh y + i[2xy + \cos x \sinh y + C]$$

(15)

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