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58. See solution on web site.

A6 Section 14.6 Page 679

$$14. \frac{\partial z}{\partial u} = 2u \left(\frac{y-x}{y^2+x^2} \right) = \frac{-2uv^2}{u^4+v^4}$$

$$\frac{\partial z}{\partial v} = 2v \left(\frac{y+x}{y^2+x^2} \right) = \frac{2vu^2}{u^4+v^4}$$