

MATE 3063 assignment 6: set 14.5

53–56. Choose four of exercises 1–12 of text.

57–58. Choose two of exercises 13–16.

59–60. Choose two of exercises 17–20.

61. Find the partial derivatives z_x, z_y :

(a) $z = \frac{u}{u + 2v}$, $u = x\sqrt{y}$, $v = y\sqrt{x}$.

(b) $z = \sqrt{u^2 + v^2}$, $u = e^x \cos y$, $v = e^{xy}$.

62–64. 35, 39, 43 of text.

65. Choose one of problems 45, 48, 49 of text.