

Math 120a – Exam 1 answers

1. $3x + y + z = 5$
2. $D_{\mathbf{u}}g(2, -1) = -15\sqrt{2}/2.$
3. There are many possibilities, one is $\mathbf{r}(t) = \langle 1, 1, \ln(2) \rangle + t\langle 2, 3, 1 \rangle.$
4. $z = x$
5. (a) All points except $(0, 0).$
(b) All points.
(c) All points except $(0, 0).$
6. $t = -2.$
7. (a)
8. Apply chain rule to $z(x, y).$