

Practice Problems. For each, find $\frac{\partial f(x,y)}{\partial x}$ and $\frac{\partial f(x,y)}{\partial y}$.

1. $f(x, y) = x + y$

2. $f(x, y) = x + 1$

3. $f(x, y) = xy$

4. $f(x, y) = x^2y^3$

5. $f(x, y) = (x + 1)(y + 2)$

6. $f(x, y) = (x + 1)^2(y + 2)^3$

7. $f(x, y) = (2x + 1)^2(3y + 2)^3$

8. $f(x, y) = \ln(x) + y$

9. $f(x, y) = \ln(2x^3) + y^2$