



A B C D E
0 2 1 0 1

$$f(x,y)$$

$$g(x,y) = f(x,y) + f(y,x)$$

$$g_x(1,1)$$

$$\frac{\partial g}{\partial x}$$

$$g_x(x,y) = f_x(x,y) + f_y(y,x)$$

$$g_x(x,y) = f_x(x,y) + f_x(y,x)$$

$$g_x(1,1) = f_x(1,1) + f_x(1,1) = 16$$

$$f_x(x,y) = 5y + 3 \leftarrow C$$

$$f_x(1,1) = 8$$

~~correct~~
correct

$$f(x,y) = 5xy + 3x$$

↓ F

$$g(x,y) = 5xy + 3x + 5yx + 3y$$

$$g_x(x,y) = 10y + 3$$

$$g_x(1,1) = \underline{\underline{13}}$$

therefore 13 = 16

$$\frac{\partial}{\partial x} (f(x,y))$$

$$\frac{\partial f}{\partial x} (x,y)$$

$$\frac{\partial f}{\partial x} (0,0)$$