

- 1. Is $f_x(1.5, 1.5)$ positive or negative?
- 2. Is $f_y(1.5, 1.5)$ positive or negative?
- 3. At the point (1.5, 1.5), is the surface increasing or decreasing if you walk in the northeast direction? How about in the southeast direction?
- 4. Answer the same questions at the point (0.5, 0.5)