

Some Examples of Evaluating Functions of Two Variables

1. Let $f(x,y)$ be a function of two variables :

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

a) $f(2, 3) = 2^2 + 7 \cdot 3 = 4 + 21 = 25$

b) $f(5, 1) = 5^2 + 7 \cdot 1 = 25 + 7 = 32$

2. Let $f(x,y)$ be a function of two variables :

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

a) $f(2, 3) = 2^2 + 7 = 4 + 7 = 11$

3. Let $f(x,y)$ be a function of two variables :

$$f(x, y) = y^2 - 5$$

a) $f(2, 3) = 3^2 - 5 = 9 - 5 = 4$

4. Let $f(x,y)$ be a function of two variables :

$$f(x, y) = 5$$

a) $f(2, 3) = 5$