Find the maximum and minimum values of the function $f(x, y) = 2x^2 + 3y^2 - 4x - 5$ on the domain $x^2 + y^2 \le 289$.

The maximum value of $f(x, y)$ is:

List the point(s) where the function attains its maximum as an ordered pair, such as $(-6, 3)$, or a list of ordered pairs if there is more than one point, such as $(1, 3), (-4, 7)$.

The minimum value of $f(x, y)$ is:

List points where the function attains its minimum as an ordered pair, such as $(-6, 3)$, or a list of ordered pairs if there is more than one point, such as $(1, 3), (-4, 7)$.

Find the maximum and minimum values of the function $f(x, y) = 2x^2 + 3y^2 - 4x - 5$ on the domain $x^2 + y^2 \leq 289$.

The maximum value of $f(x, y)$ is: 866

List the point(s) where the function attains its maximum as an ordered pair, such as $(-6, 3)$, or a list of ordered pairs if there is more than one point, such as $(1, 3), (-4, 7)$.

$(-2, -\sqrt{285}), (-2, \sqrt{285})$

The minimum value of $f(x, y)$ is: -7

List points where the function attains its minimum as an ordered pair, such as $(-6, 3)$, or a list of ordered pairs if there is more than one point, such as $(1, 3), (-4, 7)$.

$(1, 0)$