Sketch the original graph.

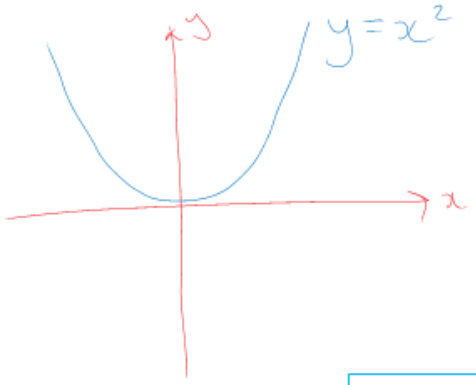
What is the equation of the image.

Given the function of $y = x^2$, it is translated 2 units in the positive x direction and 1 unit in the negative y direction.

Sketch the graph of its image.

Identify the new coordinates of the point (2, 4).

Sketch the original graph.




What is the equation of the image.

$(x, y) \rightarrow (x+2, y-1)$

$x' = x + 2$ $\quad y' = y - 1$

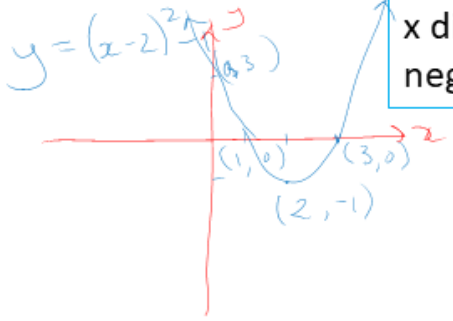
$x' - 2 = x$ $\quad y' + 1 = y$

$y = x^2$

$y' + 1 = (x' - 2)^2$

$y' = (x' - 2)^2 - 1$

Given the function of $y = x^2$, it is translated 2 units in the positive x direction and 1 unit in the negative y direction.




$(x, y) \rightarrow (x+2, y-1)$

$(2, 4) \rightarrow (4, 3)$

Sketch the graph of its image.

Identify the new coordinates of the point (2, 4).