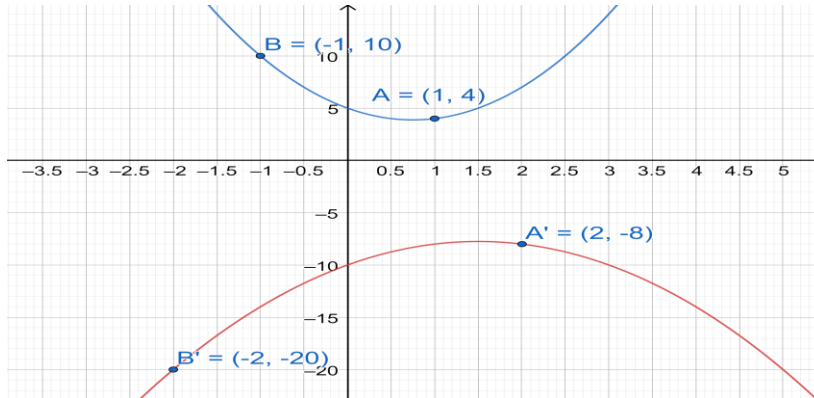


- The zeros of the function  $y = f(x)$  are  $-3, 5, 8$ . What are the zeros of the transformed function  $y = 0.5f(3x)$ ?
- Given the original function  $y = (x - 1)(x + 2)$ , what is the new equation after function translated 3 units to the right and 4 units up?
- The graph of  $f(x) = x^2 - 2$  is vertically translated so it passes through the point  $(2, 10)$ . Write the equation in terms of  $f(x)$  of the applied transformation.
- What is the equation of the image graph of  $y = 3x^2 - 5x + 3$  after reflections in both  $x$  and  $y$  axes.
- Given the function  $f(x)$ , write an equation for the function represented by the thick curve.



- $-1, \frac{5}{3}, \frac{8}{3}$
- $y = (x - 4)(x - 1) + 4$
- $f(x) + 8$  or  $x^2 + 6$
- $-3x^2 - 5x - 3$
- $-2f\left(\frac{1}{2}x\right)$