

TAKS Objective 2
TEK A.2A
Tutorial
(Grades 9, 10, and 11)

...identify the general forms of
linear and quadratic parent
functions.

Which two parent functions are tested on the TAKS test?

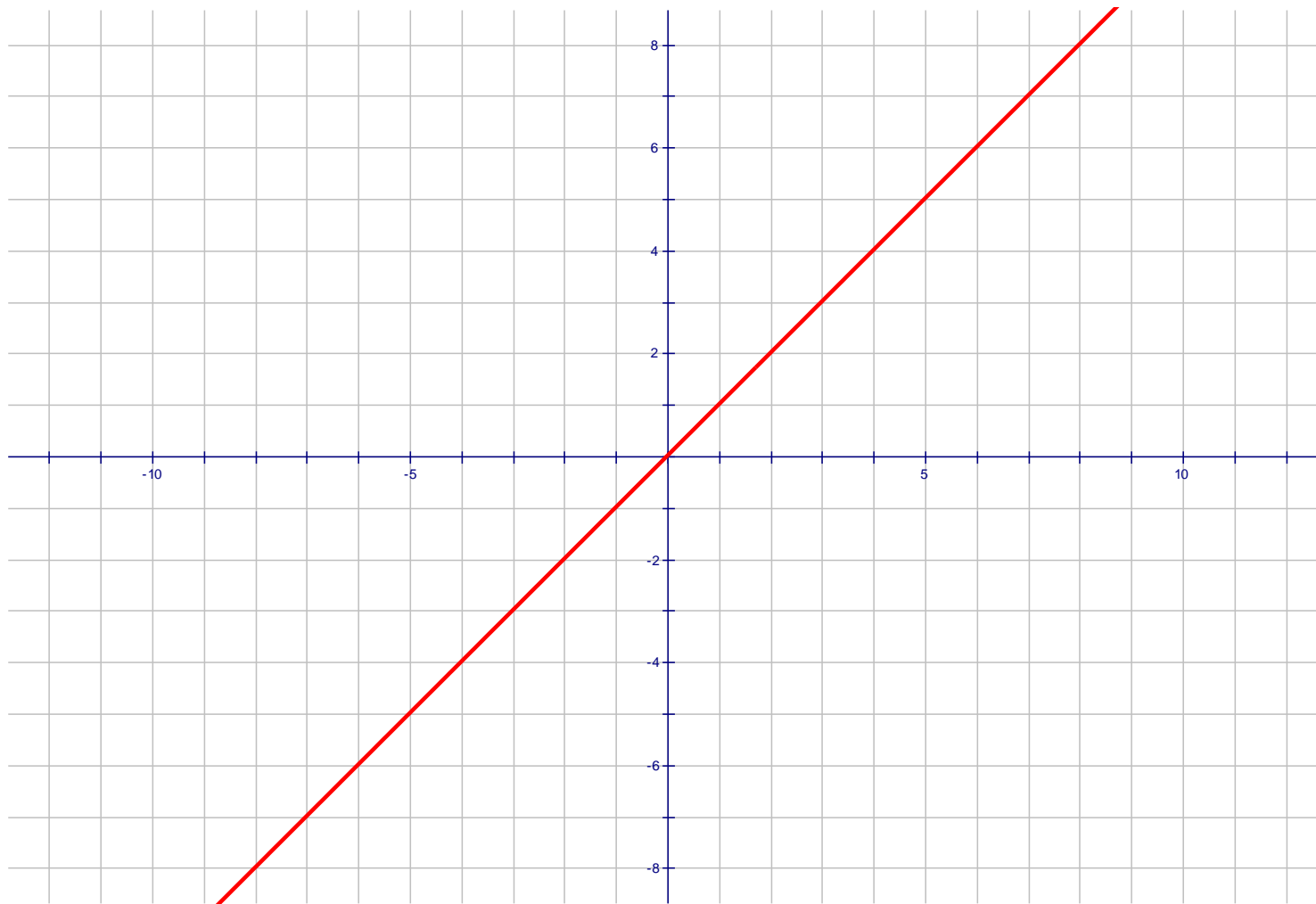
Linear and Quadratic

Write the two equations for a linear parent function, one with $y =$ and the other with $f(x) =$.

$$y = x$$

$$f(x) = x$$

Provide the graph of the linear parent function.



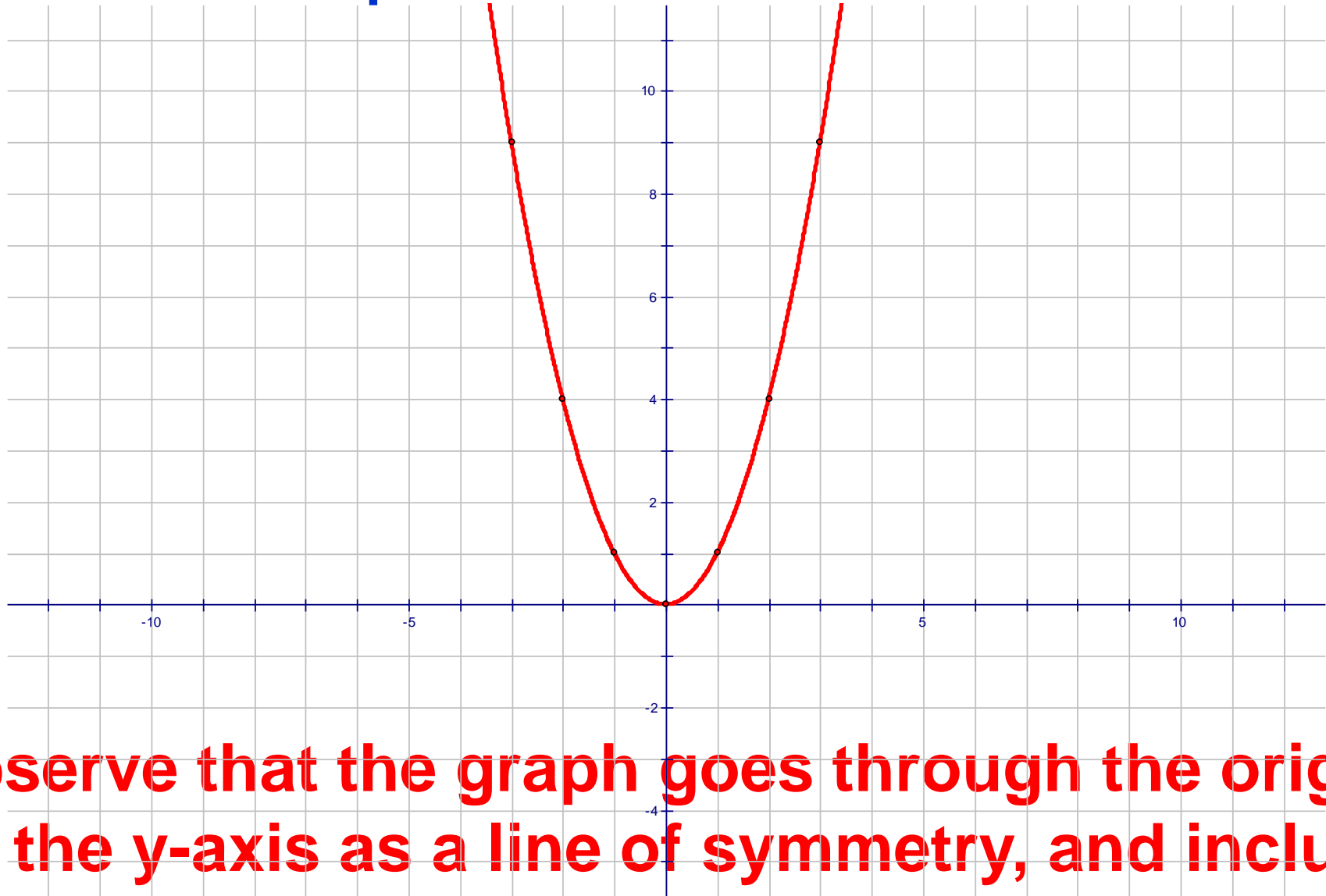
Observe that the graph goes through the origin and has a slope of 1.

Write the two equations for a quadratic parent function, one with $y =$ and the other with $f(x) =$.

$$y = x^2$$

$$f(x) = x^2$$

Provide the graph of the quadratic parent function.



Observe that the graph goes through the origin, has the y-axis as a line of symmetry, and includes (1, 1), (2, 4), and (3, 9).

Provide the graph of the parent function of $y = 3x - 2$.

Hint: Read the question. It asks for the parent function not the function that is given.

