- 1. Draw the graphs of the following functions using function transformations:
 - (a) f(x) = 4(3x+2) + 1
 - (b) $f(x) = \frac{1}{2} (4x+1)^2 2$
 - (c) $f(x) = 4x^2 + 3x + 2$
- 2. Determine the following functions, given the graph and the base function.

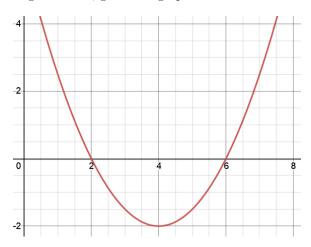


Figure 1: Base function: $f(x) = x^2$

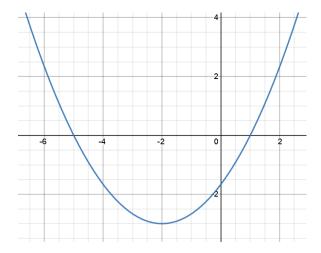


Figure 2: Base function: $f(x) = x^2$