

## Exercise 72

For the following exercises, use a calculator to find the answer.

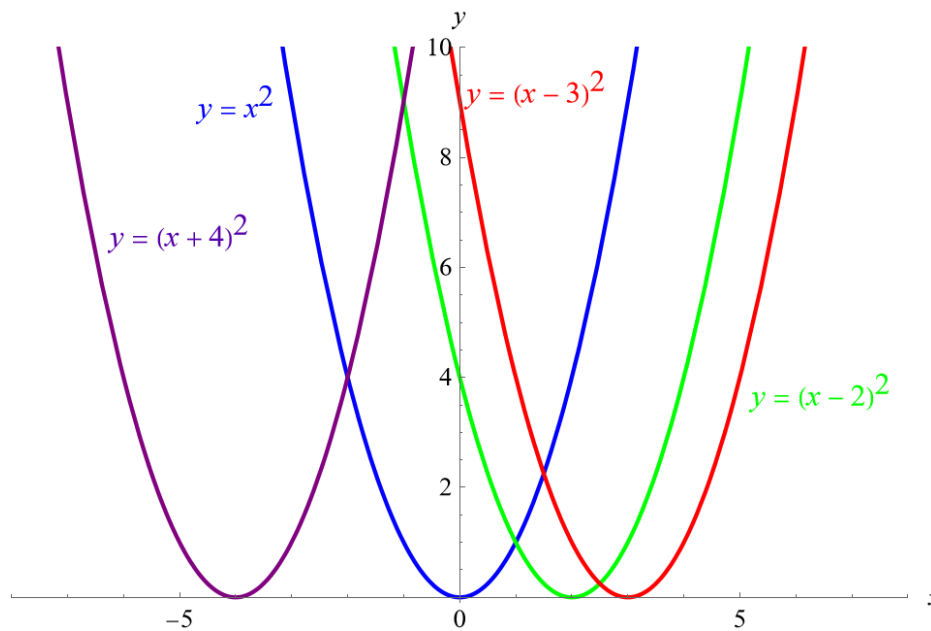
Graph on the same set of axes  $f(x) = x^2$ ,  $f(x) = (x - 2)^2$ ,  $f(x) = (x - 3)^2$ , and  $f(x) = (x + 4)^2$ .

What appears to be the effect of adding or subtracting those numbers?

[TYPO: This should be  $f(x) = (x - 3)^2$ .]

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### Solution



The higher the added constant is, the more to the left the parabola gets shifted.