

## 6. Data Structures and Algorithms :: Big O Notation :: Example 2

Let  $f(n) = 3n - 5$ . Prove that  $f(n)$  is  $O(n)$ .

## 6. Data Structures and Algorithms :: Big O Notation :: Example 2 (continued)

In fact, we can prove quite easily that if  $f(n)$  is a linear function then  $f(n)$  is always  $O(n)$ .