

**Exercise 1** Let  $f(x) = -7x + 2$  and  $a = 3$ . Observe the table of values for  $\frac{f(a+h) - f(a)}{h}$ :

$h$	$\frac{f(a+h) - f(a)}{h}$
-0.1	-7
-0.01	-7
0.01	-7
0.1	-7

The limit as  $h \rightarrow 0$  seems to be exactly  $\boxed{-7}$ .