Ejercicio 1

```
return x >>= f
    \equiv \langle def.return \rangle
State (\s -> (x, s)) >>= f
    \equiv \langle def. \gg = \rangle
State (\s -> let (v, s') = runState (State (\s -> (x, s))) s
                  in runState (f v) s')
    \equiv \langle def.runState \rangle
State (\s -> let (v, s') = (\s -> (x, s)) s
                  in runState (f v) s')
    \equiv_{\beta}
State (\s -> let (v, s') = (x, s)
                  in runState (f v) s')
    \equiv \langle def.let \rangle
State (\s -> runState (f x) s)
    \equiv_{\eta}
State (runState (f x))
    \equiv \langle def. \circ \rangle
(State . runState) (f x)
    \equiv \langle State \circ runState \equiv id \rangle
f x
```