λ-calculus - Ejercicio 3.5

$$(\lambda\text{x}.((\lambda\ \text{y}.\text{x y})\ \text{z}))\ (\lambda\text{x}.\text{x y})$$

$$(\lambda x.(\lambda y.x\ y)\ z)\ (\lambda x.x\ y)$$

Orden Normal	Orden Aplicativo
$(\lambda x.(\lambda y.xy)z)(\lambda x'.x'y')$	$(\lambda x.(\lambda y.xy)z)(\lambda x'.x'y')$
$(\lambda y.(\lambda x'.x'y')y)z$	$(\lambda x.xz)(\lambda x'.x'y')$
$(\lambda x'.x'y')z$	$(\lambda x'.x'y')z$
zy'	zy'

λ-calculus - Ejercicio 3.6

$$((\lambda y.(\lambda x.((\lambda x.\lambda y.x) x)) y) M) N$$

$$(\lambda y.(\lambda x.(\lambda xy.x)x)y)MN$$

Orden Normal	Orden Aplicativo
$(\lambda y.(\lambda x.(\lambda x'y'.x')x)y)MN$	$(\lambda y.(\lambda x.(\lambda x'y'.x')x)y)MN$
$(\lambda x.(\lambda x'y'.x')x)MN$	$(\lambda y.(\lambda xy'.x)y)MN$
$(\lambda x'y'.x')MN$	$(\lambda yy'.y)MN$
$(\lambda y'.M)N$	$(\lambda y'.M)N$
M	M