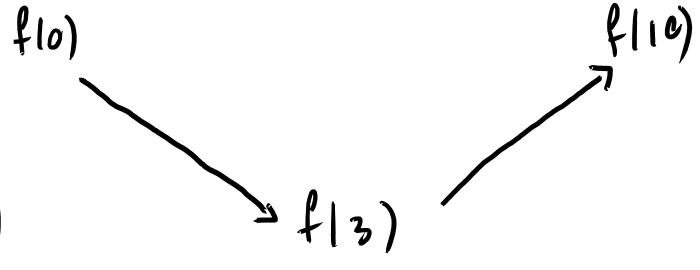


$$10. \quad f'(x) = 1 - \frac{5}{x+2} = \frac{x+2-5}{x+2} = \frac{x-3}{x+2}$$

Signe de  $x-3$ :  $x-3 > 0 \Leftrightarrow x > 3$

Signe de  $x+2$ :  $x+2 > 0 \Leftrightarrow x > -2$

$x$	0	3	10
$x-3$	-	$\emptyset$	+
$x+2$		+	
$f'$	-	$\emptyset$	+
$f$	$f(0)$	$f(3)$	$f(10)$



$$f(0) = 0 + 10 - 5 \ln(2) = 10 - 5 \ln(2)$$

$$f(3) = 13 - 5 \ln(5)$$

$$f(10) = 20 - 5 \ln(12)$$