

$$43. \quad f'(x) = 90x - 3x^2 = -3x^2 + 90x$$

Signe de  $f'$ :  $-3x^2 + 90x$



$x$	0		30		40
$f'$	$\emptyset$	+	$\emptyset$	-	
$f$	$f(0) \nearrow f(30) \searrow f(40)$				

$$f(0) = 0 \quad f(30) = 13500$$

$$f(40) = 8000$$