

# Derivadas parciais notantes

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$P_1: \frac{\partial L}{\partial P_1} = \frac{\partial L}{\partial S_1} \cdot \frac{\partial S_1}{\partial P_1} \quad \rightarrow = 1$   
 $\downarrow$   
 $-8$

$a: \frac{\partial L}{\partial a} = \frac{\partial L}{\partial P_1} \cdot \frac{\partial P_1}{\partial a} \quad P_1 = a \cdot b$   
 $\downarrow \quad \downarrow$   
 $-8 \cdot b = -8 \cdot 8 = -64 \quad \frac{\partial P_1}{\partial a} = b$

$b: \frac{\partial L}{\partial b} = \frac{\partial L}{\partial P_1} \cdot \frac{\partial P_1}{\partial b} \quad \rightarrow = a$   
 $\downarrow$   
 $-8 \cdot a = -8 \cdot (-2) = 16$

$c: \frac{\partial L}{\partial c} = \frac{\partial L}{\partial P_2} \cdot \frac{\partial P_2}{\partial c} \quad P_2 = c \cdot d$   
 $\downarrow \quad \downarrow$   
 $-8 \cdot d = -8 \cdot (-5) = 40$

$d: \frac{\partial L}{\partial d} = \frac{\partial L}{\partial P_2} \cdot \frac{\partial P_2}{\partial d}$   
 $\downarrow$   
 $-8 \cdot c = -8 \cdot 8 = -64$

$l: \frac{\partial L}{\partial l} = \frac{\partial L}{\partial P_3} \cdot \frac{\partial P_3}{\partial l} \quad P_3 = l \cdot f$   
 $\downarrow$   
 $-8 \cdot f = -8 \cdot 2 = -16$

$f: \frac{\partial L}{\partial f} = \frac{\partial L}{\partial P_3} \cdot \frac{\partial P_3}{\partial f}$   
 $\downarrow \quad \downarrow$   
 $-8 \cdot l = -8 \cdot 6 = -48$