

$$L = (y - (a \cdot b + c \cdot d + e \cdot f + g))^2$$

$$\frac{\partial L}{\partial a} = \frac{\partial L}{\partial p_1} \cdot \frac{\partial p_1}{\partial a}$$

$$a \quad -2 \quad 0$$

$$\frac{\partial L}{\partial b} = \frac{\partial L}{\partial p_1} \cdot \frac{\partial p_1}{\partial b}$$

$$b \quad 0 \quad -28$$

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$$\frac{\partial L}{\partial p_1} = \frac{\partial L}{\partial s_1} \cdot \frac{\partial s_1}{\partial p_1}$$

$$p_1 \quad 0 \quad 14$$

+

$$\frac{\partial L}{\partial s_1} = \frac{\partial L}{\partial s_2} \cdot \frac{\partial s_2}{\partial s_1}$$

$$s_1 \quad -40 \quad 14$$

+

$$\frac{\partial L}{\partial s_2} = \frac{\partial L}{\partial s_3} \cdot \frac{\partial s_3}{\partial s_2}$$

$$s_2 \quad -33 \quad 14$$

+

$$s_3 \quad -43 \quad 14$$

$$\frac{\partial L}{\partial c} = \frac{\partial L}{\partial p_2} \cdot \frac{\partial p_2}{\partial c}$$

$$c \quad 8 \quad -70$$

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$$\frac{\partial L}{\partial p_2} = \frac{\partial L}{\partial s_1} \cdot \frac{\partial s_1}{\partial p_2}$$

$$p_2 \quad -40 \quad 14$$

$$\frac{\partial L}{\partial c} = \frac{\partial L}{\partial p_3} \cdot \frac{\partial p_3}{\partial c}$$

$$e \quad 1 \quad 98$$

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$$\frac{\partial L}{\partial f} = \frac{\partial L}{\partial p_3} \cdot \frac{\partial p_3}{\partial f}$$

$$f \quad 7 \quad 14$$

$$p_3 \quad 7 \quad 14$$

$$\frac{\partial L}{\partial p_3} = \frac{\partial L}{\partial s_2} \cdot \frac{\partial s_2}{\partial p_3}$$

$$g \quad -10 \quad 14$$

$$\frac{\partial L}{\partial g} = \frac{\partial L}{\partial s_3} \cdot \frac{\partial s_3}{\partial g}$$

$$y \quad -50 \quad -14$$

$$\frac{\partial L}{\partial y} = \frac{\partial L}{\partial s_4} \cdot \frac{\partial s_4}{\partial y} = -14$$

$$y \quad -50 \quad -14$$

+

$$s_4 \quad -7 \quad -14$$

$$\frac{\partial L}{\partial s_4} = 2 \cdot s_4 = -14$$

\square^2

$$L \quad 49 \quad 1$$

$$\frac{\partial L}{\partial L} = 1$$

$$\frac{\partial L}{\partial s_3} = \frac{\partial L}{\partial p_4} \cdot \frac{\partial p_4}{\partial s_3} = 14$$

$$s_3 \quad -43 \quad 14$$

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$$v_1 \quad -1 \quad -602$$

$$\frac{\partial L}{\partial v_1} = \frac{\partial L}{\partial p_4} \cdot \frac{\partial p_4}{\partial v_1}$$

$$p_4 \quad 43 \quad -14$$

$$\frac{\partial L}{\partial p_4} = \frac{\partial L}{\partial s_4} \cdot \frac{\partial s_4}{\partial p_4} = -14$$

$$-14 \cdot 1$$

$$p_1 = a \cdot b$$

$$p_2 = c \cdot d$$

$$p_3 = e \cdot f$$

$$s_1 = \underbrace{a \cdot b}_{p_1} + \underbrace{c \cdot d}_{p_2}$$

$$s_2 = s_1 + p_3$$

$$s_3 = s_2 + g$$

$$p_4 = s_3 - v_1$$

$$L = s_4^2$$

$$s_4 = p_4 + y$$