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- 1.1 (a) X
(b) X
(c) ✓

1.2 (a) $y = F$

(b) $P(A_i = T) = \frac{2}{3}$
 $P(A_i = F) = \frac{1}{3}$
 $P(y = F | A_i = T \text{ or } F) = \frac{1}{2}$

A	A _i	P(A _i = T)
T	T	$\frac{1}{3}$
T	F	$\frac{1}{3}$
F	T	0
F	F	0

A _j	P(y = T)
T	$\frac{1}{3}$
F	$\frac{1}{3}$

1.3 $x_1 = 0.5$ $\theta = 0$
 $w_1 = 0.5$ $w_2 = -1$
 $I_3 = 0$ $O_3 = \frac{1}{2}$

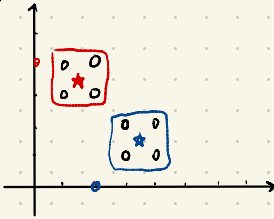
$$\frac{\partial L}{\partial \theta_3} = -2(y - O_3) = -1$$

$$\frac{\partial O_3}{\partial I_3} = \frac{e^{-11}}{(1 + e^{-11})^2} = \frac{1}{4}$$

$$\frac{\partial I_3}{\partial w_{13}} = x_1 = 1$$

$$\frac{\partial L}{\partial w_{13}} = -\frac{1}{4}$$

1.4



$$k_0 = (1.5, 3.5)$$

$$k_1 = (3.5, 1.5)$$