6 $2x + 3y - 8 = 0$

(i) For intersecting lines

$$\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$$

other equation is $4x - 9y - 33 = 0$

(ii) For parallel lines

$$\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$$

one such equation is $4x + 6y - 15 = 0$

(iii) For coincident lines

$$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$$

one such equation is

$10x + 15y - 40 = 0$

7. $x - y + 1 = 0$

$\Rightarrow y = x + 1$

x	0	-1	1
y	1	0	2

$3x + 2y - 12 = 0$

$\Rightarrow x = \frac{12 - 2y}{3}$

x	4	2	0
y	0	3	6