$$\begin{cases} 10x - 5y = 2\\ 15x + 20y = 14 \end{cases}$$

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17/9/22

ALTERNATIVA

$$-\frac{55}{3}y = -\frac{22}{3}$$

$$-5 - \frac{40}{3}$$

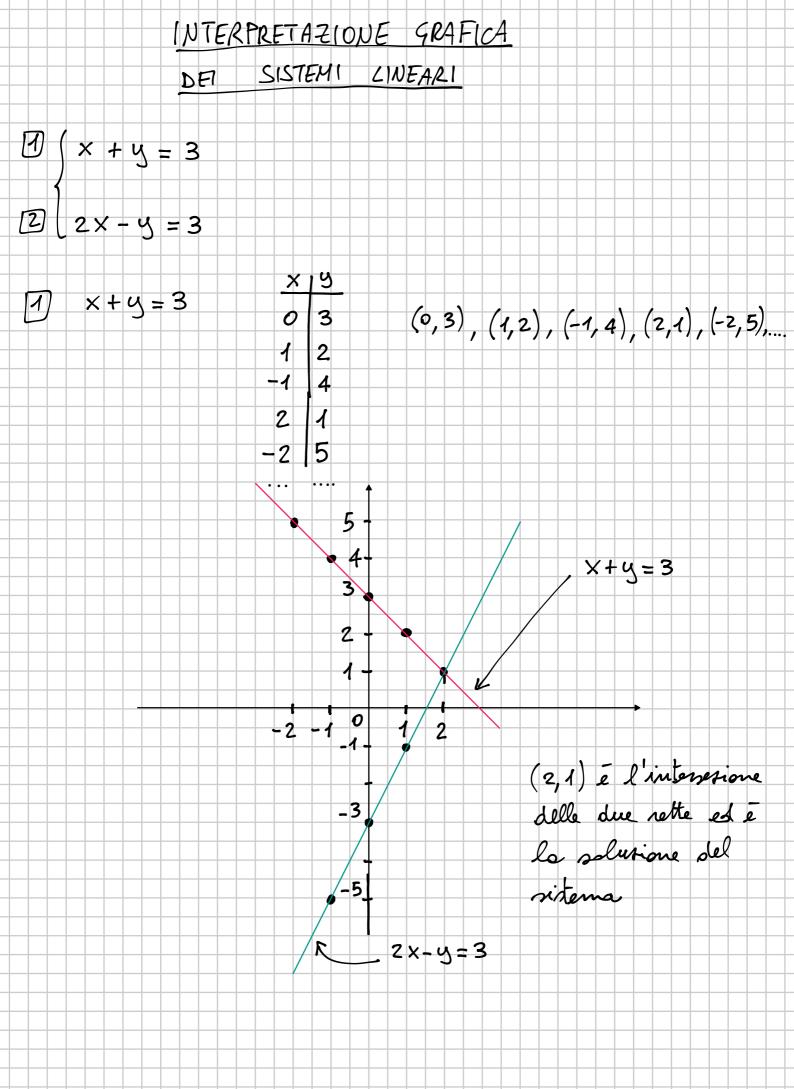
$$2 - \frac{28}{3}$$

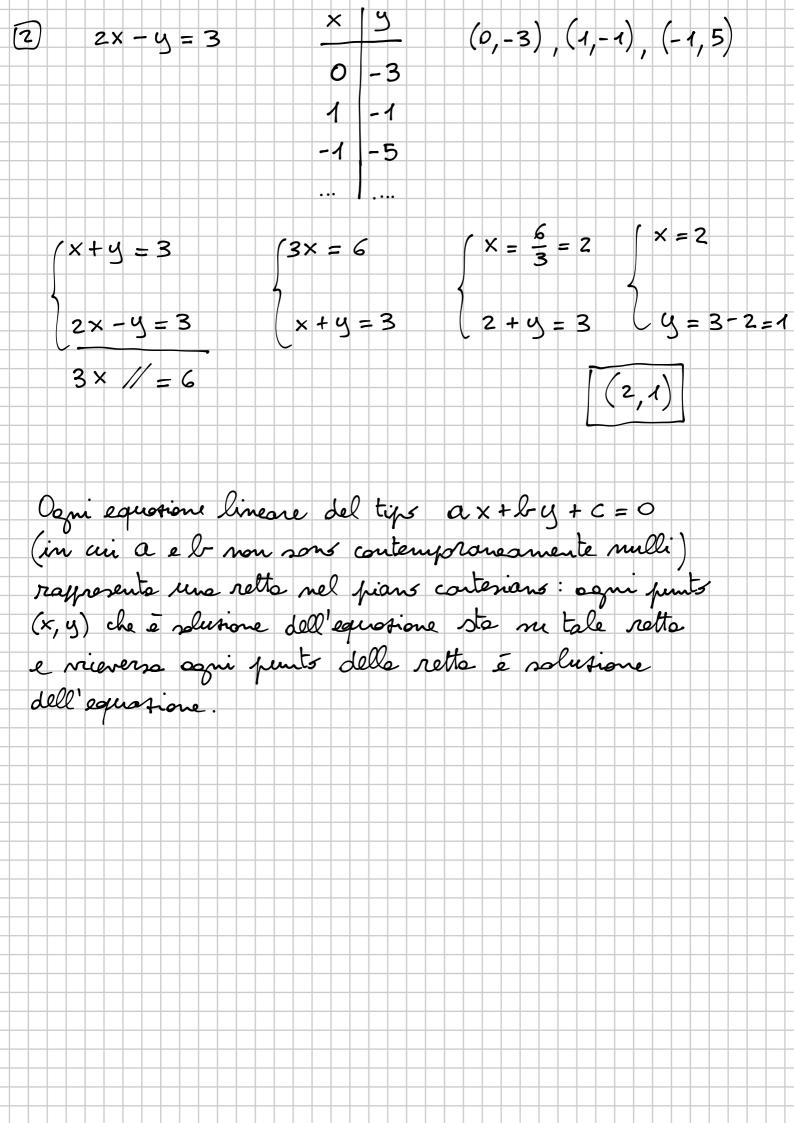
$$\begin{cases} (2x-1)^2 - 6y = 2 + 4x^2 \\ \frac{2}{3}x = \frac{1}{3} - y \end{cases}$$

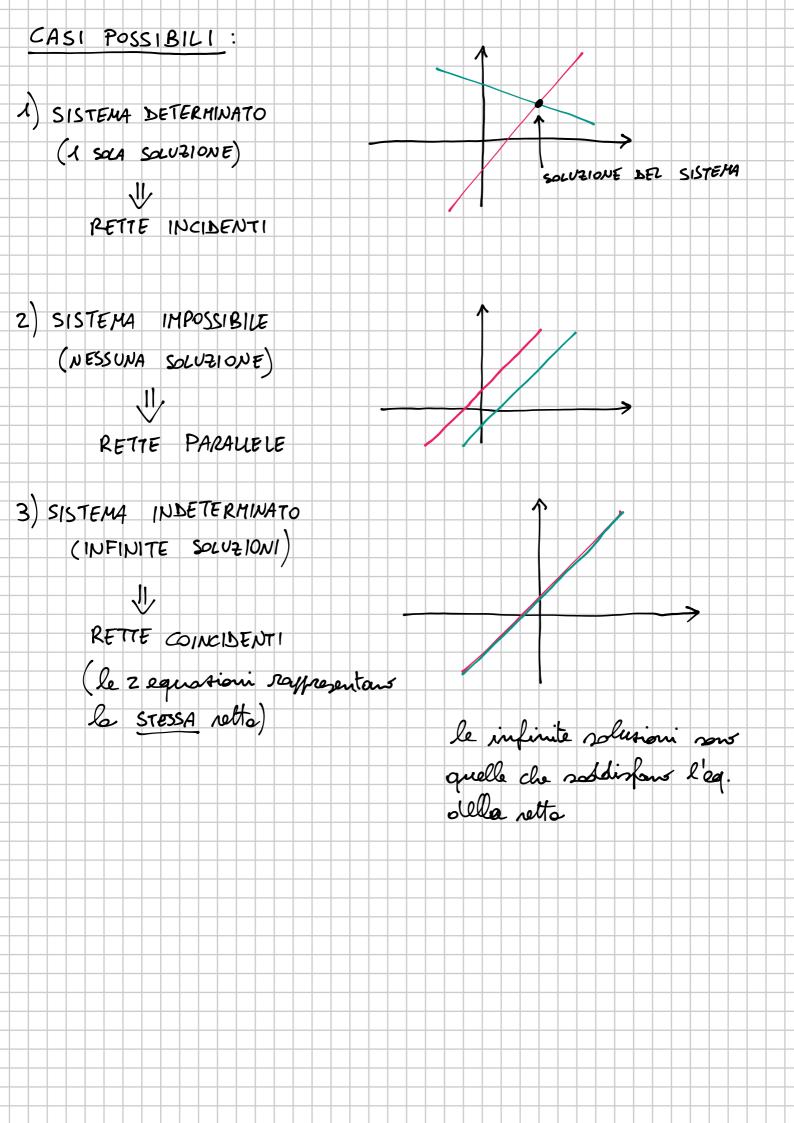
$$\begin{vmatrix} -4x - 6y = 1 \\ -4x + 6y = 2 \end{vmatrix} = 0 = 3 \quad |MPOSSIBILE|$$

$$4x + 6y = 2 \quad |2x + 3y = 1|$$

11 11 = 3







OSSERVAZIONI

A) SISTEMI INDETERMINATI

$$\int x + 2y = 3$$

Osseno che il rayants dei coefficienti

$$2x + 4y = 6$$
 \overline{e} costante (ugude o $\frac{1}{2}$)

In generale:

$$\int ax + by = c$$

E INDETERMINATO SSE $\frac{a}{a'} = \frac{b}{b'} = \frac{c}{c'}$

SISTEM IN FORM NORMALE con coefficient non mulli

2) SISTEMA IMPOSSIBILE

$$\int x + 2y = 3$$

Oneno che il roporto dei cofficienti della x e della y é reguale, ma

$$2x + 4y = 7$$

divers de quells dei termini noti

n generale:

a'x+2'y=c' $\frac{\alpha}{\alpha'} = \frac{\beta}{\beta'} + \frac{c}{c'}$

SISTEMA IN FORMA NORMALE Con coeff. von melli

$$\begin{cases} -x + 5y = -3\\ 2x - 10y - 6 = 0 \end{cases}$$

STABILIRE SE E

DETERMINATO INDETERMINATO

O IMPOSSIBILE

$$\begin{cases} -x + 5y = -3 \\ 2x - 10y = 6 \end{cases}$$

$$\frac{\alpha}{\alpha'} = \frac{1}{2} = -\frac{1}{2}$$

$$\frac{\alpha'}{\alpha'} = \frac{1}{2} = -\frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$\begin{cases} x - y + 2 = 0 \\ 2x - 2y + 3 = 0 \end{cases}$$

$$\begin{cases} x - 4 = -2 \\ 2x - 24 = -3 \end{cases}$$

$$\frac{\alpha}{\alpha'} = \frac{1}{2} \qquad \frac{2}{2} = \frac{-1}{2} = \frac{1}{2}$$

$$\frac{c}{c} = \frac{-2}{-3} = \frac{2}{3} \Rightarrow \frac{a}{a'} = \frac{b}{b'} \neq \frac{c}{c'}$$

SISTEMA IMPO SSIBILE