

$$x = 1 - 5k \quad \Leftrightarrow \quad k = \frac{1-x}{5}$$

$$y = 2 + 3k \quad \Leftrightarrow \quad k = \frac{y-2}{3}$$

$$(6; -1) \in d$$

*Oui*

$$6 = 1 - 5k \Rightarrow 5k = -5 \Rightarrow k = -1$$

$$-1 = 2 + 3k \Rightarrow 3k = -3 \Rightarrow k = -1$$

$$(3; -2) \in d$$

*Non*

$$\frac{1-3}{5} = \frac{-2}{5} \neq \frac{-2-2}{3} = \frac{-4}{3}$$

$$(1; 0) \in d$$

*Non*

$$\frac{1-1}{5} = 0 \neq \frac{0-2}{3} = -\frac{2}{3}$$

$$\boxed{\left(-6; \frac{31}{5}\right) \in d \quad ?}$$

Oui

$$\frac{1+6}{5} = \frac{7}{5} \quad = \quad \frac{\frac{31}{5} - 2}{3}$$

$$= \frac{\frac{31}{5} - \frac{10}{5}}{3}$$

$$= \frac{21}{5} \cdot \frac{1}{3} = \frac{7}{5}$$