

① Verbetersleutel: snijpunten bepalen met de assen

a) * Snijpunt met de y-as: $y = x - 5$

→ stel $x = 0$

$$y = 0 - 5$$

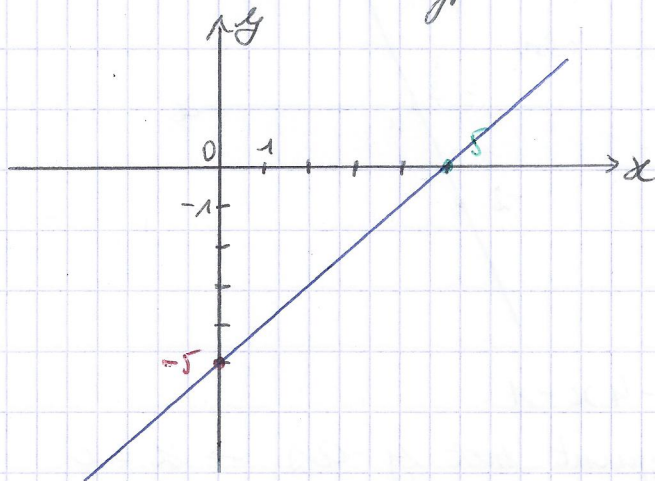
↪ $y = -5$ → coördinaten snijpunt y-as: $(0, -5)$

* Snijpunt met de x-as

→ stel $y = 0$

$$0 = x - 5$$

↪ $x = 5$ → coördinaten snijpunt x-as: $(5, 0)$



b) $y = 2x - 2$

* Snijpunt met y-as

→ stel $x = 0$

$$y = 2 \cdot 0 - 2$$

↪ $y = 0 - 2$

↪ $y = -2$ → coördinaten snijpunt y-as: $(0, -2)$

* Snijpunt met x-as

→ stel $y = 0$

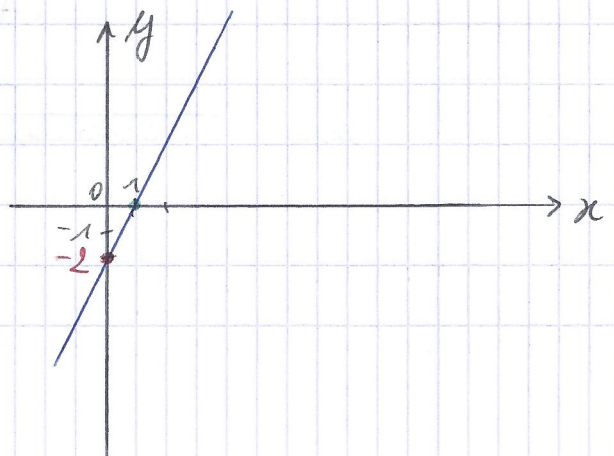
$$0 = 2x - 2$$

↪ $2x = 2$

↪ $x = 1$

coördinaten snijpunt

x-as: $(1, 0)$



c) $y = 3x - 2$

* Snijpunt met y-as $\rightarrow x = 0$

$$y = 3 \cdot 0 - 2$$

$$\rightarrow y = 0 - 2$$

$$y = -2$$

coördinaten snijpunt y-as: $(0, -2)$

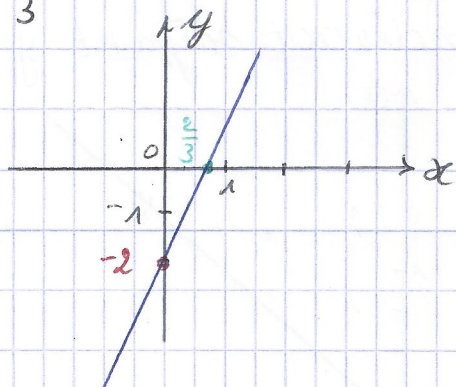
* Snijpunt met x-as $\rightarrow y = 0$

$$0 = 3x - 2$$

$$\Leftrightarrow 3x = 2$$

$$\Leftrightarrow x = \frac{2}{3}$$

coördinaten snijpunt x-as: $(\frac{2}{3}, 0)$



d) $y = -4x - 1$

* Snijpunt met y-as $\rightarrow x = 0$

$$y = -4 \cdot 0 - 1$$

$$y = 0 - 1$$

$$y = -1$$

coördinaten snijpunt y-as: $(0, -1)$

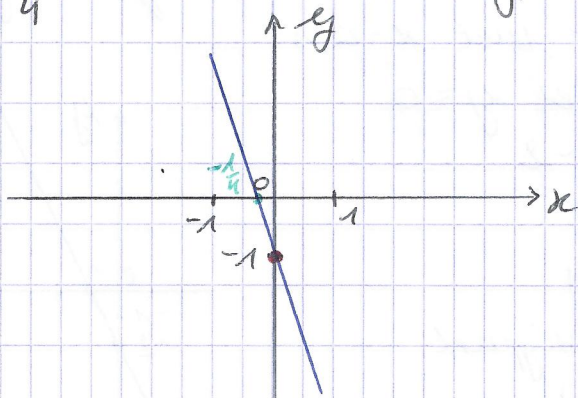
* Snijpunt met x-as $\rightarrow y = 0$

$$0 = -4x - 1$$

$$\Leftrightarrow 4x = -1$$

$$x = -\frac{1}{4}$$

coördinaten snijpunt x-as: $(-\frac{1}{4}, 0)$



$$e) 2x = -3y + 4$$

* Snijpunt met y-as $\rightarrow x=0$

$$2 \cdot 0 = -3y + 4$$

$$\Leftrightarrow 0 = -3y + 4$$

$$\Leftrightarrow 3y = 4$$

$$y = \frac{4}{3}$$

coördinaten snijpunt y-as: $(0, \frac{4}{3})$

* Snijpunt met x-as $\rightarrow y=0$

$$2x = -3 \cdot 0 + 4$$

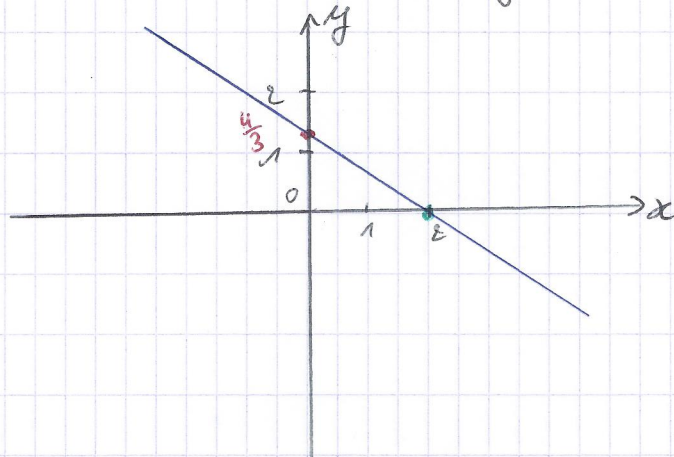
$$\Leftrightarrow 2x = 0 + 4$$

$$\Leftrightarrow 2x = 4$$

$$\Leftrightarrow x = \frac{4}{2}$$

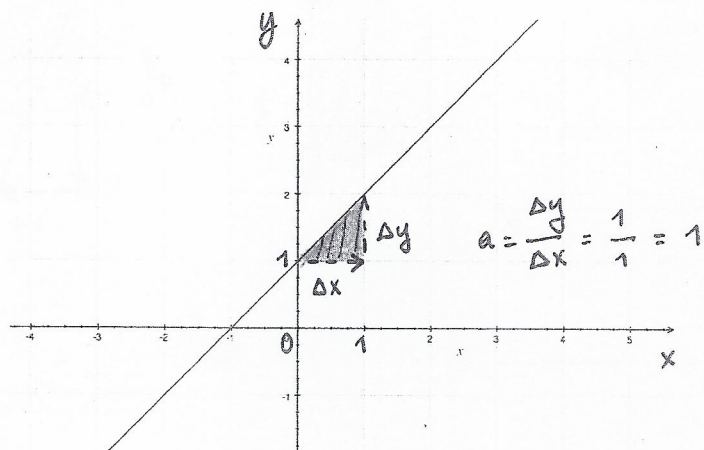
$$\Leftrightarrow x = 2$$

coördinaten snijpunt x-as: $(2, 0)$



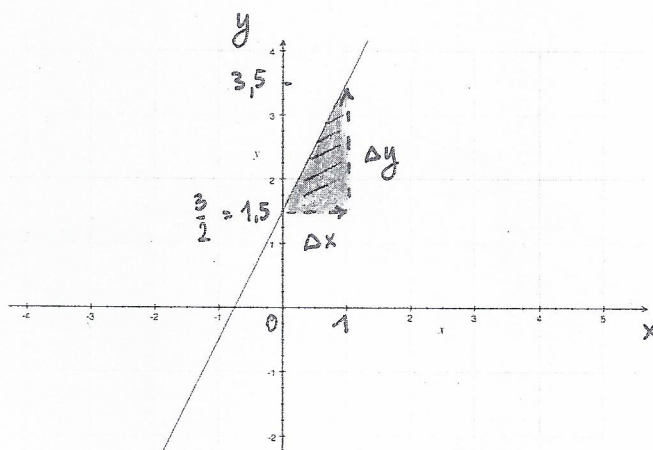
2. Van volgende rechten zijn steeds de coördinaten van 1 punt en de RICO a gegeven. Teken de rechte en duid de RICO aan.

a) (0,1) en a = 1

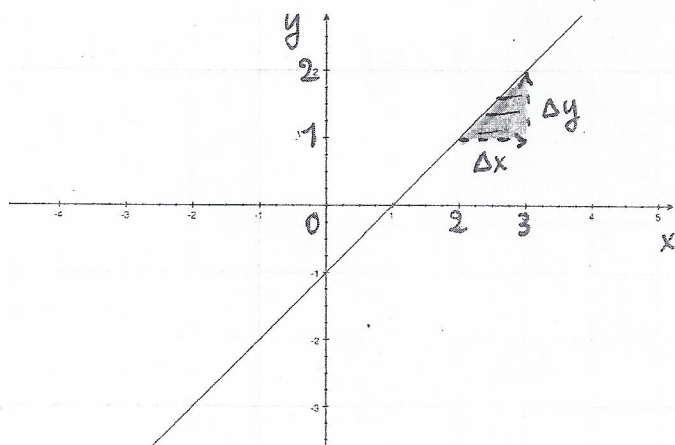


b) (0, 3/2) en a = 2

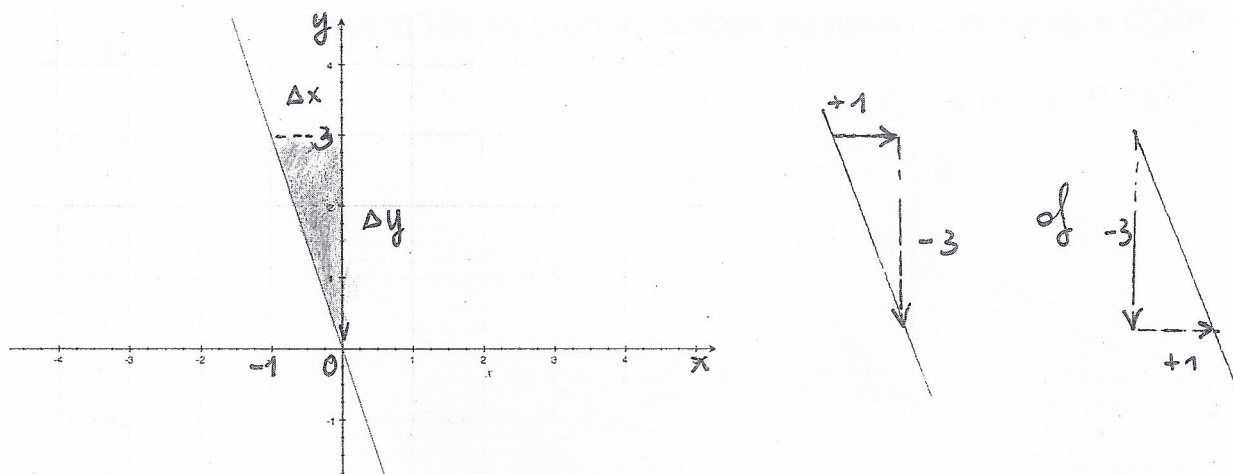
$$a = \frac{\Delta y}{\Delta x} = 2$$



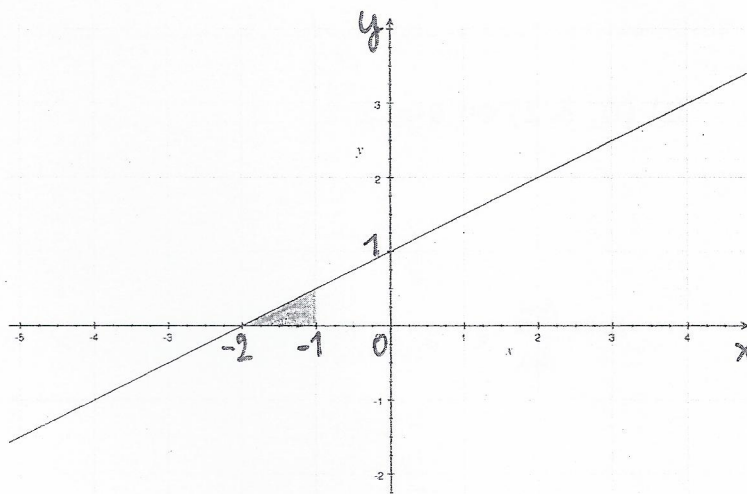
c) (2,1) en a = 1



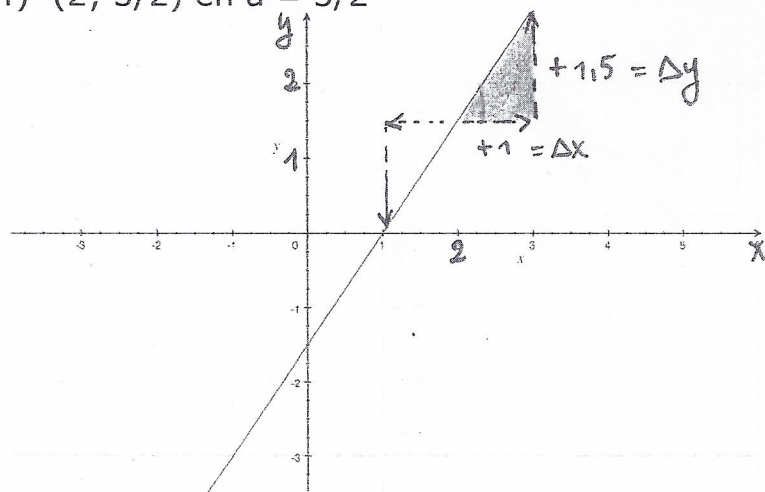
d) $(-1, 3)$ en $a = -3$



e) $(-2, 0)$ en $a = \frac{1}{2}$

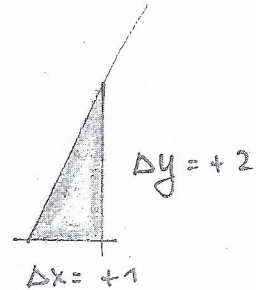
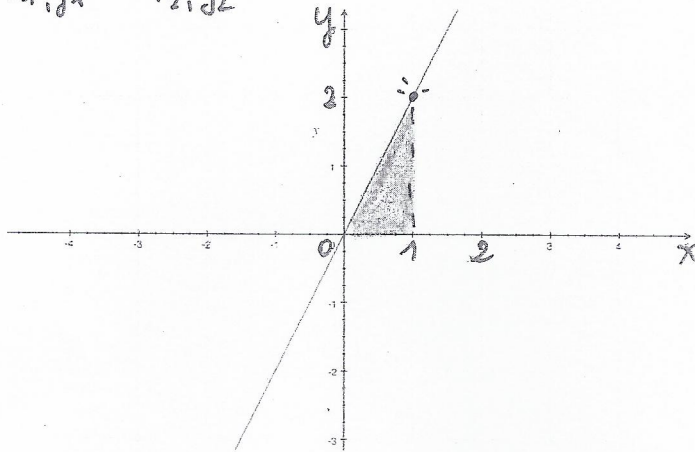


f) $(2; \frac{3}{2})$ en $a = \frac{3}{2}$



3. Zoek de RICO a van de rechte als steeds de coördinaten van 2 punten van de rechte worden gegeven. Teken de rechte en bereken de RICO a met de formule.

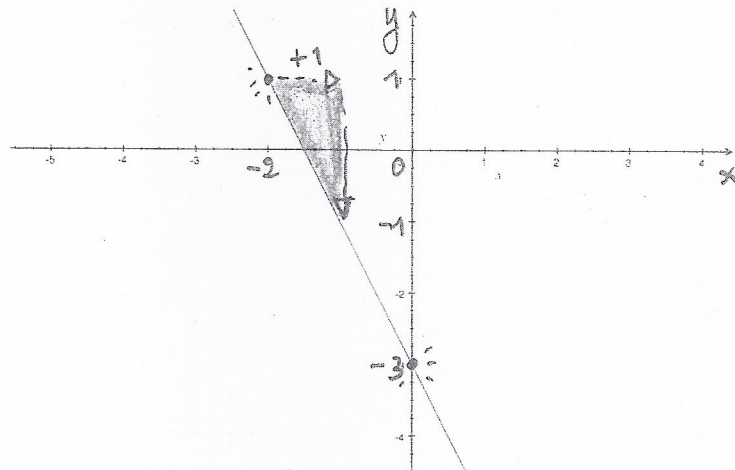
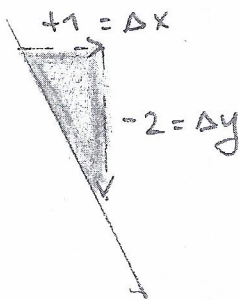
- a. (1,2) en (2, 4) $a = +2$
 x_1, y_1 x_2, y_2



$$a = \frac{\Delta y}{\Delta x} = \frac{2}{1} = 2$$

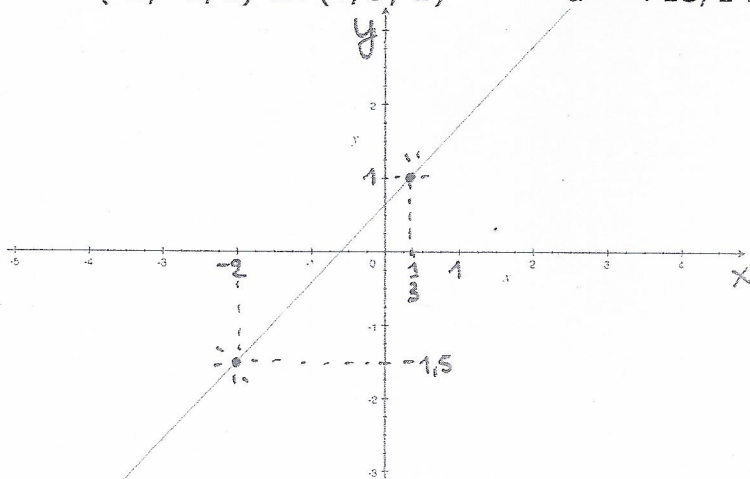
$$a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 2}{2 - 1} = \frac{2}{1} = 2$$

- b. (-2,1) en (0,-3) $a = -2$
 x_1, y_1 x_2, y_2



$$a = \frac{\Delta y}{\Delta x} = \frac{-2}{1} = -2$$

- c. (-2; -3/2) en (1/3; 1) $a = +15/14$



$$a = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\Leftrightarrow a = \frac{1 + \frac{3}{2}}{\frac{1}{3} + 2} = \frac{\frac{5}{2}}{\frac{7}{3}} = \frac{5}{2} \cdot \frac{3}{7}$$

$$\Leftrightarrow a = \frac{15}{14}$$