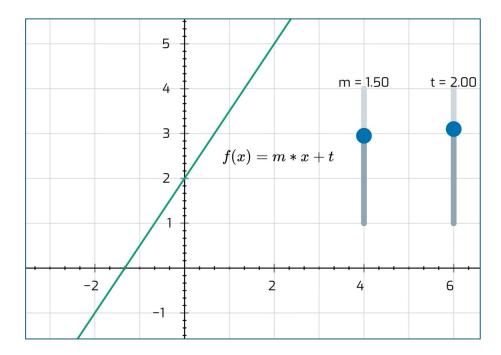
## Graph of a Linear Function (1)

## Construction

- ► Show grid and coordinate system.
- ▶ Under *Functions*, select  $\neg \neg$  *Slider* for the range -5 to 5, name it m and place it at the top right of the board.
- ► To the right of it, place another  $\frac{1}{1000}$  Slider t, also for the range -5 to 5.
- ▶ Under Functions, select f(x) Function graph and enter the function term  $f(x) = m \cdot x + t$ . Input in sketchometry: m\*x+t
- Select under *Measure* in the toolbar  $f(x) = m \cdot x + t$  and place the text next to the graph. sketchometry input:  $f(x) = m \cdot x + t$  and place the



## **Exploration**

- Move the slider t and observe the graph. What do you notice? Take a note of your observation.
- Move the slider m and observe the graph. What do you notice? Take notes again. Describe the difference to the effect of the slider t.
- ► Choose the value -2 for t. What value must m have so that the graph intersects the x-axis exactly at x = 4? Note the result with a sketch.