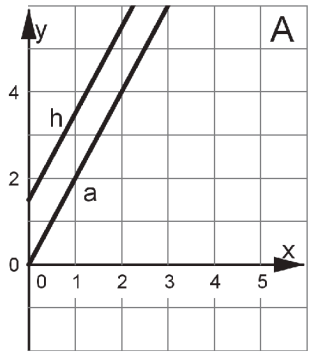
Translating a Line
Graph



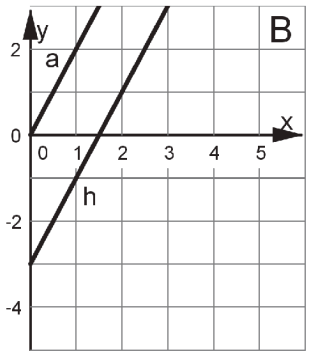
Translating a Line
Table

x	y
0	1.5
1	3.5
1.5	4.5
2.75	7

Translating a Line
Equation

$$y = \frac{3}{2} + 2x$$

Translating a Line
Graph



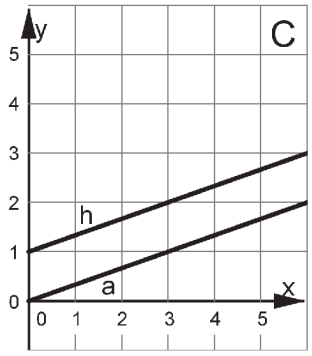
Translating a Line
Description

The *y*-coordinate is three less than double the *x*-coordinate.

Translating a Line
Equation

$$2x - 3 = y$$

Translating a Line
Graph



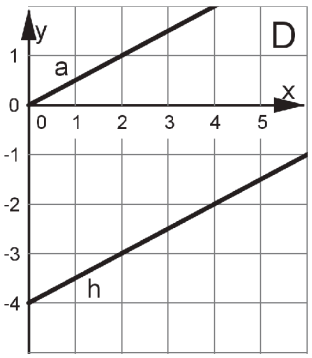
Translating a Line
Description

The *y*-coordinate is one more than a third of the *x*-coordinate.

Translating a Line
Equation

$$y = \frac{1}{3}x + 1$$

Translating a Line
Graph



Translating a Line
Table

x	y
0	–4
2	–3
4	–2
8	0

Translating a Line
Equation