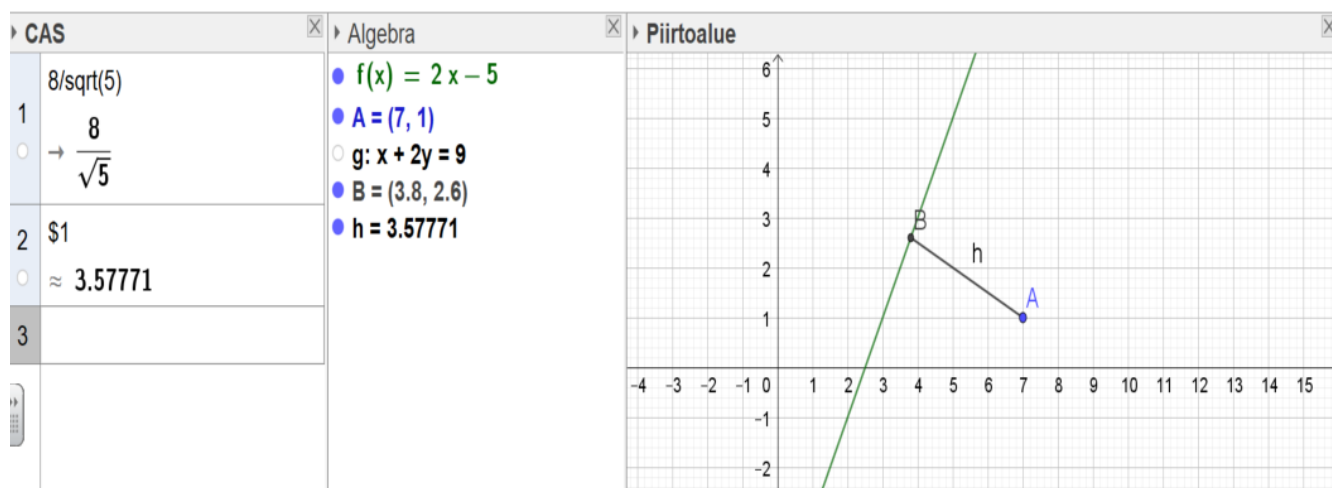


## PISTEEN ETÄISYYS SUORASTA



Suora  $y = 2x - 5$

$$y - 2x + 5 = 0$$

$$-2x + y + 5 = 0 \quad | \cdot (-1)$$

$$2x - y - 5 = 0$$

$(7, 1) = (x_0, y_0)$

Pisteen  $(7, 1)$  etäisyys suorasta  $2x - y - 5 = 0$

$$\frac{|ax_0 + by_0 + c|}{\sqrt{a^2 + b^2}}$$

$$\frac{|2 \cdot 7 + (-1) \cdot 1 + (-5)|}{\sqrt{2^2 + (-1)^2}}$$

$$a = 2$$

$$b = -1$$

$$c = -5$$

$$(x_0, y_0) = (7, 1)$$

$$= \frac{|14 - 1 - 5|}{\sqrt{4 + 1}} = \frac{|8|}{\sqrt{5}} = \frac{8}{\sqrt{5}}$$