

Eindexamen wiskunde B1 havo 2002-I

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Functies

$$1. \quad \sqrt{-2x+12} \leq x - 1 \quad \text{op } < \leftarrow , 6]$$

$$\rightarrow x \geq \sqrt{11} \quad \rightarrow \quad 3,32 \leq x \leq 6$$

$$2. \quad \frac{-1}{\sqrt{-2x+12}} = -1 \quad \rightarrow \quad -2x + 12 = 1 \quad \rightarrow \quad x = 5\frac{1}{2}$$

$$f(5\frac{1}{2}) = 1 \quad \rightarrow \quad (5\frac{1}{2}; 1)$$

$$3. \quad \sqrt{-2a+12} - (a - 1) = 2 \quad \rightarrow \quad a^2 + 4a - 11 = 0$$

$$\rightarrow a = -2 + \frac{1}{2}\sqrt{60} = 1,87$$

Of met de GR: $y_1 = \sqrt{-2x+12} - (x - 1)$ $y_2 = 2$

Intersect $x = 1,87 \quad \rightarrow \quad a = 1,87$