

## Golfhoogte

1.  $g(w) = 5,0$

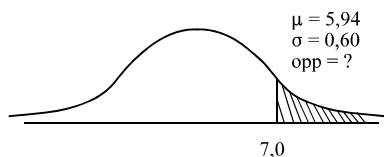
$$4,82 + 0,60w - 0,0063 \cdot (7,0 - w)^{3,13} = 5,0$$

Voer in:  $y_1 = 4,82 + 0,60 \cdot x - 0,0063 \cdot (7,0 - x)^{3,13}$   $y_2 = 5,0$

Intersect geeft:  $x \approx 2,0 \quad \rightarrow \quad w \approx 2,0$

dus ongeveer 2,0 meter boven NAP

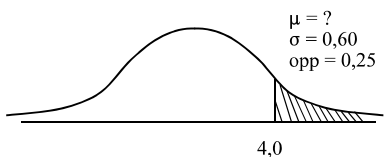
2.  $g(2,8) = 4,82 + 0,60 \cdot 2,8 - 0,0063 \cdot (7,0 - 2,8)^{3,13} \approx 5,94$



Golfhoogte  $h$  is normaal verdeeld met  $\mu = 5,94$  en  $\sigma = 0,60$

$$P(h > 7,0) = \text{normalcdf}(7,0, 10^{99}, 5,94, 0,60) \approx 0,04 \quad \rightarrow \quad 4\%$$

3.

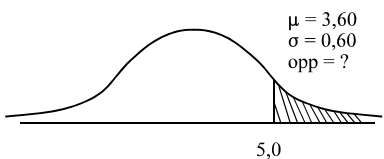


Golfhoogte  $h$  is normaal verdeeld met  $\mu = ?$  en  $\sigma = 0,60$

$$P(h > 4,0) = \text{normalcdf}(4,0, 10^{99}, \mu, 0,60) = 0,25$$

Voer in:  $y_1 = \text{normalcdf}(4,0, 10^{99}, x, 0,60)$   $y_2 = 0,25$

Intersect geeft:  $x \approx 3,60 \quad \rightarrow \quad \mu = 3,60$



$$P(h > 5,0) = \text{normalcdf}(5,0, 10^{99}, 3,60, 0,60) \approx 0,0098 \quad \rightarrow \quad 1\%$$