

Gemiddelde functiewaarde

$$18. \quad \bar{f}(4) - f(4) = \frac{1}{2} \cdot \int_3^5 x^2 dx - 16 = \frac{1}{2} \left[\frac{1}{3} x^3 \right]_3^5 - 16 = \frac{1}{2} (41\frac{2}{3} - 9) - 16 = \frac{1}{3}$$

$$19. \quad \bar{f}(4) = \frac{1}{2} \cdot \int_3^5 (p \cdot e^x) dx = 100$$

$$\text{Dus} \quad \frac{1}{2} \cdot [p \cdot e^x]_3^5 = \frac{1}{2} p (e^5 - e^3) = 100$$

$$p = \frac{200}{e^5 - e^3} = 1,56$$