Oppervlakte

5. $f'(x) = \dfrac{1}{2\sqrt{x-1}}$ → $f'(10) = {}^1\!/_6$

$y = {}^1\!/_6 x + b$ door $P(10, 3)$ → $b = 3 - {}^1\!/_6 \cdot 10 = {}^4\!/_3$

→ k: $y \rightarrow {}^1\!/_6 x + {}^4\!/_3$

6. ${}^1\!/_6 x + {}^4\!/_3 = 0$ → $x = -8$

$$A = \int_{-8}^{10}(\tfrac{1}{6}x+\tfrac{4}{3})dx - \int_{1}^{10}(\sqrt{x-1})dx = \left[\frac{x^2}{12} + \frac{4x}{3}\right]_{-8}^{10} - \left[\tfrac{2}{3}(x-1)^{\frac{3}{2}}\right]_{1}^{10} =$$

$8{}^1\!/_3 + 13{}^1\!/_3 - 5{}^1\!/_3 + 10{}^2\!/_3 - 18 = 9$