

Onderwerp D4 : Macht en lijnen

2018-2

3p

17/97

$$\frac{3}{16x^4} = \frac{1}{32} \rightarrow 16x^4 = 96 \rightarrow x^4 = 6$$

$$x = \sqrt[4]{6} \text{ of } x = -\sqrt[4]{6}$$

afstand tussen snijpunten is $2\sqrt[4]{6}$

dia 31



5p

18/98

$$f(x) = \frac{3}{16x^4} = \frac{3}{16} \cdot x^{-4}$$

$$f'(x) = -4 \cdot \frac{3}{16} \cdot x^{-5} = -\frac{3}{4x^5}$$

$$f'(1) = -\frac{3}{4}$$

$$\text{lijn } l: y = -\frac{3}{4}x + b$$

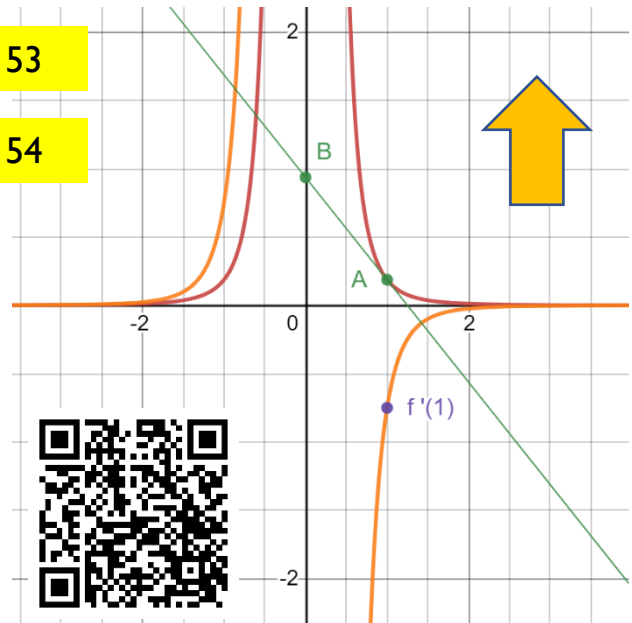
invullen $(1, \frac{3}{16})$

$$\frac{3}{16} = -\frac{3}{4} \cdot 1 + b \rightarrow b = \frac{3}{16} + \frac{3}{4} = \frac{15}{16}$$

$$\text{lijn } l: y = -\frac{3}{4}x + \frac{15}{16} \rightarrow B(0, \frac{15}{16})$$

dia 53

dia 54



1
1
1
1
1
1