hei

$$2x^2 = 53 \tag{1}$$

$$23 = 5x \tag{2}$$

Exercise 1!

Exercise 2!

Exercise 3!

Exercise 4!

Exercise 5!

Exercise 6!

Exercise 5.1.21a

Bevis at hvis $f(x) = f'(x) = 0$, så vil

$$f^{iv}(x+h) - \frac{16f(x+h) - 9f(x+2h) + \frac{8}{3}f(x+3h) - \frac{1}{4}f(x+4h)}{h^4} = O(h^2)$$

. Vi endrer uttrykket vi kom fram til i oppgave 5.1.21 fra $f^{iv}(x)$ til $f^{iv}(x+h)$:

$$f^{iv}(x+h) = \frac{f(x-h) - 4f(x) + 6f(x+h) - 4f(x+2h) + fx + 3h}{h^4} + O(h^2)$$

$$f_y(x,y) = 2 * 3y \quad = 6y$$

hei.