hei

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

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

Exercise 1!

```
E = 1.3*10.^(10);
I = (w*t.^3)/12;
B = ones(n, 1);
for k=1:n
    xi=k*h;
    B(k, 1)=g*d*w*t+(p*g*sin(xi*(pi/2)));
end;
B=B*h^4/(E*I);
```

asdasd

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 $f^{iv}(x+h)$:

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

hei.