6 abril stjerde sjæler egeler ? 11 20 24 Calculus = (a)  $f(x) \circ g(x)$ ; (b)  $g(x) \circ f(x)$ (a)  $h(x) \circ f(x)$  (b)  $f(x) \circ h(x)$ (a)  $f(x) \circ g(x) = 2(3x-1)^2 - 5(3x-1) + 3$ = 2 (4x2-2(3x)(1)+(1)2)-5(3x-1)+3 = 2 (9x2-6x+2)-15x+5+3  $= 18x^2 - 12x + 2 - 15x + 8$ = 18x2-27x+10 (b) g(x) o f(x) = (3(2x2-5x+3))-1  $= 6\chi^2 - 15\chi + 9 - 1$  $= 6x^2 - J5x + 8$ ( h(x) o f(x) = (2x2-5x+3)-1  $= 2x^2 - 5x + 2$ (d) f(x) o h(x) = 2 (2-1)2-5 (x-1)+3 =  $2(\chi^2-2(\chi)(1)+(4)^2)-5\chi+5+3$ = 2 (x2-2x+2)-5x+8 = 2 x2 - 4x + 2 - 5x + 8 = 2 x 2 - 9x+10