

**Derivatives are not always “in terms of x”**

Determine each of the following derivatives. You do not need to simplify.

a)  $\frac{d(3x^2-6x+1)}{dx}$

b)  $\frac{d[4(2x-1)^2+9(2x-1)+11]}{d(2x-1)}$

c)  $\frac{d(8x^3-16x+4)}{dx}$

d)  $\frac{d[7(6x^9+x^4)^3-23(6x^9+x^4)^2+65]}{d(6x^9+x^4)}$

e)  $\frac{d(2x^2-16x+32)}{d(x-4)}$

f)  $\frac{d(9x^2+42x+49)}{d(3x+7)}$

g)  $\frac{d(75x^2-30x+3)}{d(5x-1)}$