CHORD-SLOPE FUNCTION 2

- Use a chord-slope function with $h = 0.01$ to get an approximate value of $f'(x)$ for $f(x) = x^3$ for each integer value of x from -4 to 4.

- Deduce a formula for $f'(x)$.

- Now repeat this for:

1	$f(x) = 2x^3$	5	$f(x) = x^3 + x^2$
2	$f(x) = 5x^3$	6	$f(x) = 2x^3 - 3x^2$
3	$f(x) = 2x^3 + 3x$	7	$f(x) = 4x^3 + x^2 - 7x$
4	$f(x) = -x^3 + 2x$	8	$f(x) = 3x^3 - 2x^2 - x$

- Deduce a formula for $f'(x)$ for $f(x) = ax^3 + bx^2 + cx + d$

- You could see if your formula is correct by using the gradient function facility on a graph plotter or on a computer algebra system such as DERIVE.