 Sketching polynomials

1. Find the *x*-intercept(s) and *y-*intercept for the following polynomials.
	1. $y=x$
	2. $y=x(-2)$
	3. $y=x(x-2)(x-4)$
	4. $y=x(x-2)(x-4)(x-6)$
	5. $y=x(x-2)(x-4)(x-6)(x-8)$
2. Sketch the above graphs on the same number plane below.

1. Describe the changes that occur as each polynomial function increases by one degree.