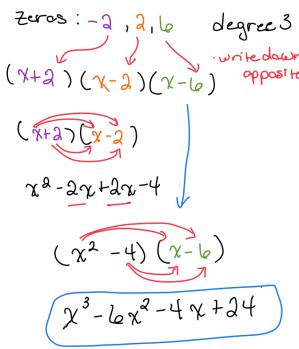
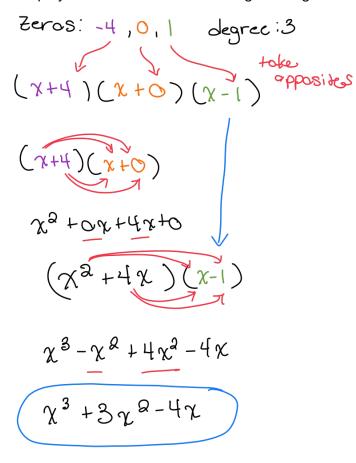
1. Form a polynomial whose zeros and degree are given.



just tells you what your largest degree (exponent) of x will be in the final answer.

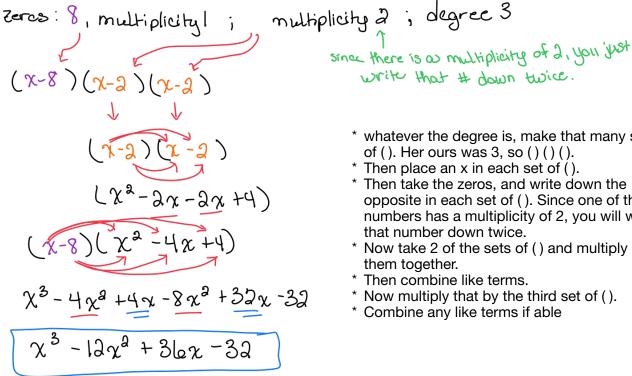
- * whatever the degree is, make that many sets of (). Her ours was 3, so () () ().
- * Then place an x in each set of ().
- * Then take the zeros, and write down the opposite in each set of ().
- * Now take 2 of the sets of () and multiply them together.
- * Then combine like terms.
- * Now multiply that by the third set of ().
- * Combine any like terms if able

2. Form a polynomial whose zeros and degree are given.



- * whatever the degree is, make that many sets of (). Her ours was 3, so ()()().
- * Then place an x in each set of ().
- * Then take the zeros, and write down the opposite in each set of ().
- * Now take 2 of the sets of () and multiply them together.
- * Then combine like terms.
- * Now multiply that by the third set of ().
- * Combine any like terms if able

3. Form a polynomial whose zeros and degree are given.



- * whatever the degree is, make that many sets of (). Her ours was 3, so ()()().
- * Then place an x in each set of ().
- * Then take the zeros, and write down the opposite in each set of (). Since one of the numbers has a multiplicity of 2, you will write that number down twice.
- * Now take 2 of the sets of () and multiply them together.
- * Then combine like terms.
- * Now multiply that by the third set of ().
- * Combine any like terms if able

4. Form a polynomial whose zeros and degree are given.

Zero's: -5,-2,4,5 degree:4

$$(x+5)(x+2)(x-4)(x-5)$$
 $(x+5)(x+2)$
 $(x-4)(x-5)$
 (x^2+3x+6)
 $(x^2-5x-4x+20)$
 $(x^2+7x+10)$
 $(x^2-9x+20)$

- * whatever the degree is, make that many sets of (). Her ours was 3, so () () ().
- * Then place an x in each set of ().
- * Then take the zeros, and write down the opposite in each set of (). Since one of the numbers has a multiplicity of 2, you will write that number down twice.
- Now take 2 of the sets of () and multiply them together.
- Then combine like terms.
- Now multiply that by the third set of ().
- Combine any like terms if able.
- * Then multiply that by the 4th set of ().
- Then combine any like terms.

$$\chi^{4} - 9\chi^{3} + 20\chi^{2} + 7\chi^{3} - 63\chi^{2} + 140\chi + 10\chi^{2} - 90\chi + 200$$

$$\chi^{4} - 2\chi^{3} - 33\chi^{2} + 50\chi + 200$$