## Warm Up week 16 Tuesday

1. Write a polynomial function in standard form with the zeroes: 1, -5 (multiplicity 2 )
2. Put into standard form, then use vocabulary to name by degree and number of terms.
$y=x^{3}+9 x^{2}+15 x-25$

$$
(x+2)\left(x^{2}-2 x+4\right)-x^{2}(x-1)
$$


3. Find all solutions.

$$
x^{5}=4 x-3 x^{3}
$$

a)
$\sqrt[3]{27 x^{3}}$
b) $\sqrt{12 a^{4} w^{3}}$

4. Find all solutions.

$$
125 x^{3}=27
$$

$$
\{0, \pm 1, \pm 2\}
$$

5. Simplify

