NAME _____ QUARTER ____

GRADE & SECTION _____ DATE _____

Activity: ROOTS OF A POLYNOMIAL EQUATION

Part I. Determine the number of roots and what are the roots of the polynomial.

1. $(x+4)(x+3)=0$

   How many roots are there in this equation? ____

   What are the roots? ____ ____ ____

2. $(x-4)^3=0$

   How many roots are there in this equation? ____

   What are the roots? ____ **of multiplicity** ____

3. $(x-1)^2(x-3)=0$

   How many roots are there in this equation? ____

   What are the roots? ____ **of multiplicity** ____ **, and** ____

4. $x^5(x+3)(x-4)=0$

   How many roots are there in this equation? ____

   What are the roots? ____ **of multiplicity** ____ **,** ____ **and** ____

Part II. Find the other roots.

1. If one of the roots of the polynomial equation $x^2+5x-14=0$ is 2, find the other root.

   ____

2. If one of the roots of the polynomial equation $x^3-13x+12=0$ is -4, find the other roots.

   ____ **and** ____

3. If one of the roots of the polynomial equation $x^4-x^3-7x^2+13x-6=0$ is 1, find the other roots.

   ____ **,** ____ **and** ____

How many attempts? ___.
How well did you do?

☐ Need help!

☐ Just OK!

☐ Splendid

I FEEL THAT…

_____

_____

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LIVEWORKSHEETS