

NAME

QUARTER

GRADE &amp; SECTION

DATE

## Activity: FACTORING

**Part I.** Recall the theorems learned to determine which of the possible roots are actual roots then use that to express the given in factored form.

1.  $x^3 - 2x^2 - 5x + 6 = 0$

from list of possible roots:

1	
-1	
2	
-2	

3	
-3	
6	
-6	

Factored form:  $(\quad)(\quad)(\quad) = 0$

2.  $x^4 + 6x^3 + 7x^2 - 6x - 8 = 0$

from list of possible roots:

1	
-1	
2	
-2	

4	
-4	
8	
-8	

Factored form:  $(x - 1)(\quad)(\quad)(\quad) = 0$

**Part II.** Which of the following do you prefer to use in helping you factor the polynomial?

Remainder Theorem

Rational Root/Zero Theorem

Factor Theorem

Synthetic Division

Why?

How many attempts? \_\_\_\_.  
How well did you do?



Need help!



Just OK!



Splendid

I NEED TO...