NAME _____ QUARTER 1

GRADE & SECTION _____ DATE _____

Activity: Remainder Theorem and Factor Theorem

Find the remainder when the first polynomial is divided by the second polynomial. Then identify if the divisor is also a factor or not..

1. $x^4 + 4x^3 - 11x - 5$ by $x + 3$

$P(-3) = (-3)^4 + 4(-3)^3 - 11(-3) - 5$

$P(-3) = 81 + 4(-27) - (-33) - 5$

$P(-3) = 81 - 108 + 33 - 5$

$P(-3) = R =$ ____ Is it a factor? **Yes** **No**

2. $x^3 + 5x^2 - 2x - 24$ by $x - 2$

$P(2) = (2)^3 + 5(2)^2 - 2(2) - 24$

$P(2) =$

$P(2) =$

$P(2) = R =$ ____ Is it a factor? **Yes** **No**

3. $4x^3 - 12x^2 - x + 3$ by $x - 3$,

$P(\quad) =$

$P(\quad) =$

$P(\quad) =$

$P(\quad) = R =$ ____ Is it a factor? **Yes** **No**

Prepared by: JOSHUA P. SALAZAR - FGCHS

LIVEWORKSHEETS

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Find the remainder when the first polynomial is divided by the second polynomial. Then identify if the divisor is also a factor or not..

4. $x^4 - x^3 - x^2 + x - 8$ by $x - 2$

$P(\quad) =$

$P(\quad) =$

$P(\quad) =$

$P(\quad) = R =$ ____ Is it a factor? **Yes** **No**

5. $6x^3 + 5x^2 - 3x - 2$ by $3x - 2$

$P\left(\quad\right) =$

$P\left(\quad\right) =$

$P\left(\quad\right) =$

$P\left(\quad\right) =$

$P\left(\quad\right) = R =$ ____ Is it a factor? **Yes** **No**

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LIVEWORKSHEETS