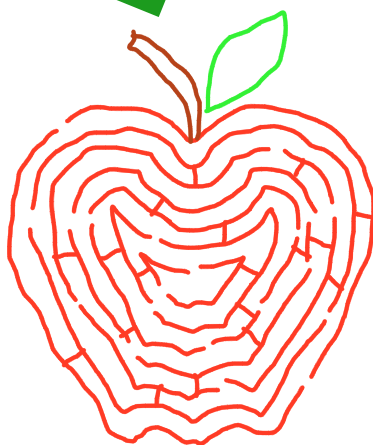


MAZE



OPERATIONS ON
POLYNOMIALS

DIVIDING POLYNOMIALS

LONG DIVISION

Operations on Polynomials - Dividing Polynomials: Long Division

Directions: Divide each expression by Long Division. Use your answer to navigate through the maze. Show your work.

START

$(2x^2 - 10x - 26) \div (x - 7)$

$(x^4 + 7x^3 - 6x^2 - x - 9) \div (x - 1)$

$(12x^3 - 21x^2 + 21x - 6) \div (4x - 3)$

$2x + 4 - \frac{2}{x - 7}$

$x^3 + 8x^2 + 2x + 1 - \frac{8}{x - 1}$

$2x + 4 + \frac{2}{x - 7}$

$5x^2 - \frac{9}{x + 2}$

$3x^2 - 3x + 3 + \frac{3}{4x - 3}$

$(3x^3 - 10x^2 - 2x + 20) \div (x - 3)$

$(5x^3 + 10x^2 - 9) \div (x + 2)$

$(3x^3 - 27x^2 + 43x) \div (x - 7)$

$3x^2 - x - 5 + \frac{5}{x - 3}$

$3x^2 - 6x - 1 - \frac{7}{x - 7}$

$3x^2 + x + 5 + \frac{5}{x - 3}$

$5x^2 + \frac{9}{x + 2}$

$3x^2 - 6x + 1 + \frac{7}{x - 7}$

$(3x^3 - 4x^2 - 4x - 10) \div (x - 5)$

$(-6x - 26 + 5x^2) \div (x - 3)$

$(x^3 + 6 - 4x^2) \div (x - 4)$

$5x + 9 - \frac{1}{x - 3}$

$x^2 + \frac{6}{x - 4}$

$x^2 + x + 1 - \frac{5}{x - 5}$

$5x + 9 + \frac{1}{x - 3}$

$x^2 - \frac{6}{x - 4}$

$(7x^4 + 55x^3 + 2x^2 + 74x - 41) \div (x + 8)$


$(3x^3 + 18x^2 - 5) \div (x + 6)$

$3x^2 - \frac{5}{x + 6}$

$7x^3 - x^2 + 10x - 6 + \frac{7}{x + 8}$

$5x + 9 - \frac{1}{x - 3}$

Good Job!!/



The End

Operations on Polynomials - Dividing Polynomials: Long Division

Directions: Divide each expression by Long Division. Use your answer to navigate through the maze. Show your work.

START

$(2x^2 - 10x - 26) \div (x - 7)$

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$(3x^3 - 10x^2 - 2x + 20) \div (x - 3)$

$(5x^3 + 10x^2 - 9) \div (x + 2)$

$(3x^3 - 27x^2 + 43x) \div (x - 7)$

$3x^2 - 5 + \frac{5}{x - 3}$

$3x^2 - 6x - 1 - \frac{7}{x - 7}$

$3x^2 + x + 5 + \frac{5}{x - 3}$

$5x^2 + \frac{9}{x + 2}$

$3x^2 - 6x + 1 + \frac{7}{x - 7}$

$(3x^3 - 4x^2 - 4x - 10) \div (x - 5)$

$(-6x - 26 + 5x^2) \div (x - 3)$

$(x^3 + 6 - 4x^2) \div (x - 4)$

$5x + 9 - \frac{1}{x - 3}$

$x^2 + \frac{6}{x - 4}$

$x^2 + x + 1 - \frac{5}{x - 5}$

$5x + 9 + \frac{1}{x - 3}$

$x^2 - \frac{6}{x - 4}$

$(7x^4 + 55x^3 + 2x^2 + 74x - 41) \div (x + 8)$

$(3x^3 + 18x^2 - 5) \div (x + 6)$

$7x^3 - x^2 + 10x - 6 + \frac{7}{x + 8}$

$3x^2 - \frac{5}{x + 6}$

Good Job!!

The End

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RECORDING SHEET

Name: _____ Period: _____ Date: _____

Operations on Polynomials - Dividing Polynomials: Long Division

Directions: Simplify each expression. Use your answer to navigate through the maze. Show your work.

START $(2x^2 - 10x - 26) \div (x - 7)$

$$\begin{array}{r} 2x + 4 \\ x-7 \overline{) 2x^2 - 10x - 26} \\ \underline{2x^2 - 14x} \\ 4x - 26 \\ \underline{4x - 28} \\ +2 \end{array}$$

$2x + 4 + \frac{2}{x-7}$

$(x^4 + 7x^3 - 6x^2 - x - 9) \div (x - 1)$

$$\begin{array}{r} x^3 + 7x^2 - 13x - 8 \\ x-1 \overline{) x^4 + 7x^3 - 6x^2 - x - 9} \\ \underline{x^4 + x^3} \\ 6x^3 - 6x^2 - x - 9 \\ \underline{6x^3 + 6x^2} \\ -12x^2 - x - 9 \\ \underline{-12x^2 + 12x} \\ -13x - 9 \\ \underline{-13x + 13} \\ -9 \end{array}$$

$x^3 + 7x^2 - 13x - 8$

$(12x^3 - 21x^2 + 21x - 6) \div (4x - 3)$

$$\begin{array}{r} 3x^2 - 3x + 3 \\ 4x-3 \overline{) 12x^3 - 21x^2 + 21x - 6} \\ \underline{12x^3 - 9x^2} \\ -12x^2 + 21x - 6 \\ \underline{-12x^2 + 9x} \\ 12x - 6 \\ \underline{12x - 9} \\ +3 \end{array}$$

$3x^2 - 3x + 3 + \frac{3}{4x-3}$

$(3x^3 - 10x^2 - 2x + 20) \div (x - 3)$

$$\begin{array}{r} 3x^2 - x - 5 \\ x-3 \overline{) 3x^3 - 10x^2 - 2x + 20} \\ \underline{3x^3 - 9x^2} \\ -x^2 - 2x + 20 \\ \underline{-x^2 + 3x} \\ -5x + 20 \\ \underline{-5x + 15} \\ +5 \end{array}$$

$3x^2 - x - 5 + \frac{5}{x-3}$

$(5x^3 + 10x^2 - 9) \div (x + 2)$

$$\begin{array}{r} 5x^2 - 9 \\ x+2 \overline{) 5x^3 + 10x^2 - 9} \\ \underline{5x^3 + 10x^2} \\ -9 \\ \underline{-9x - 18} \\ 9x + 9 \end{array}$$

$5x^2 - 9$

$(3x^3 - 27x^2 + 43x) \div (x - 7)$

$$\begin{array}{r} 3x^2 - 6x + 1 \\ x-7 \overline{) 3x^3 - 27x^2 + 43x} \\ \underline{3x^3 - 21x^2} \\ -6x^2 + 43x \\ \underline{-6x^2 + 42x} \\ +x \end{array}$$

$3x^2 - 6x + 1 + \frac{1}{x-7}$

$(3x^3 - 4x^2 - 4x - 10) \div (x - 5)$

$$\begin{array}{r} 3x^2 + x + 5 \\ x-5 \overline{) 3x^3 - 4x^2 - 4x - 10} \\ \underline{3x^3 - 15x^2} \\ 11x^2 - 4x - 10 \\ \underline{11x^2 - 55x} \\ 51x - 10 \\ \underline{51x - 255} \\ +245 \end{array}$$

$3x^2 + x + 5 + \frac{245}{x-5}$

$(-6x - 26 + 5x^2) \div (x - 3)$

$$\begin{array}{r} 5x + 9 \\ x-3 \overline{) 5x^2 - 6x - 26} \\ \underline{5x^2 - 15x} \\ 9x - 26 \\ \underline{9x - 27} \\ +1 \end{array}$$

$5x + 9 + \frac{1}{x-3}$

$(x^3 + 6 - 4x^2) \div (x - 4)$

$$\begin{array}{r} x^2 - 4x + 6 \\ x-4 \overline{) x^3 - 4x^2 + 0x + 6} \\ \underline{x^3 - 4x^2} \\ 0x + 6 \end{array}$$

$x^2 - 4x + 6$

$(7x^4 + 55x^3 + 2x^2 + 74x - 41) \div (x + 8)$

$$\begin{array}{r} 7x^3 - x^2 + 10x - 6 \\ x+8 \overline{) 7x^4 + 55x^3 + 2x^2 + 74x - 41} \\ \underline{7x^4 + 56x^3} \\ -x^3 + 2x^2 + 74x - 41 \\ \underline{-x^3 - 8x^2} \\ 9x^2 + 74x - 41 \\ \underline{9x^2 + 72x} \\ 2x - 41 \\ \underline{2x + 16} \\ -57 \end{array}$$

$7x^3 - x^2 + 10x - 6 - \frac{57}{x+8}$

$(3x^3 + 18x^2 - 5) \div (x + 6)$

$$\begin{array}{r} 3x^2 - 5 \\ x+6 \overline{) 3x^3 + 18x^2 - 5} \\ \underline{3x^3 + 18x^2} \\ -5 \end{array}$$

$3x^2 - 5$

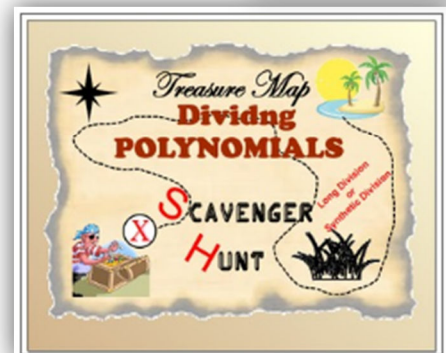
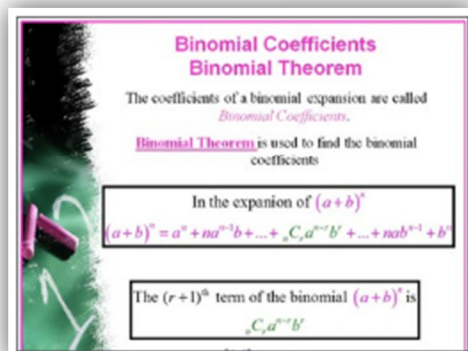
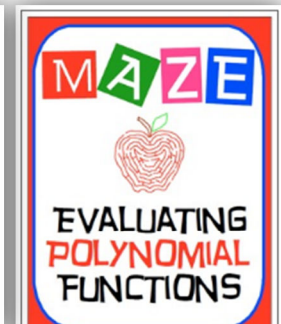
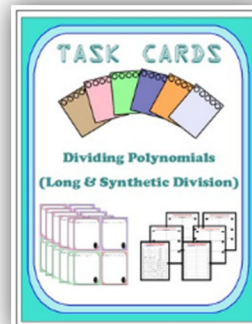
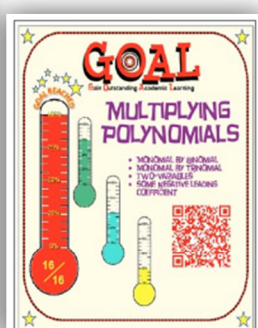
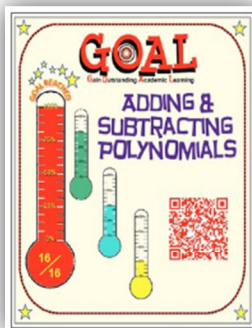
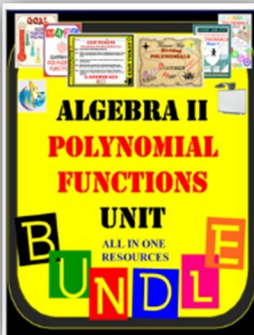
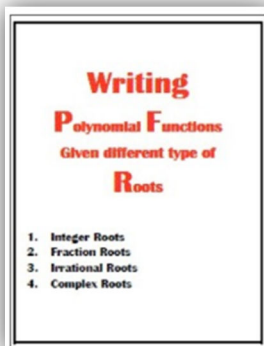
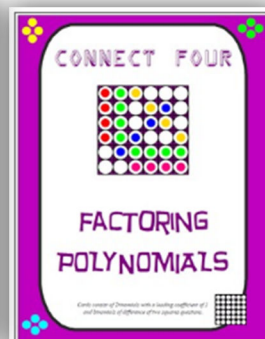
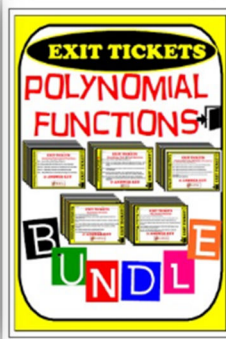
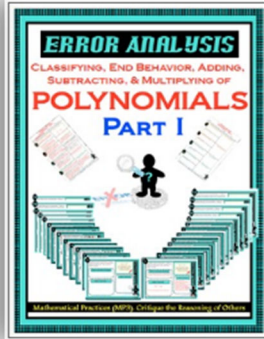
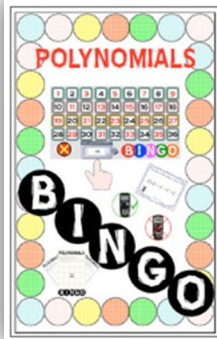
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The End

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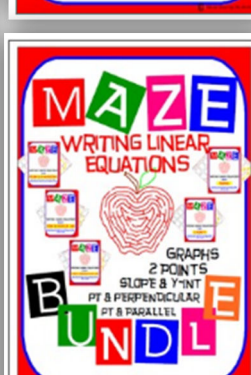
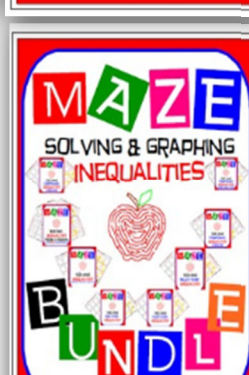
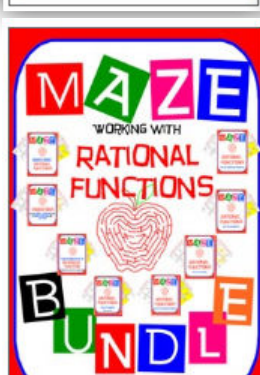
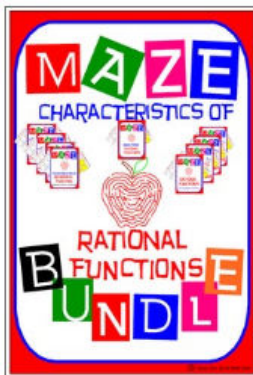
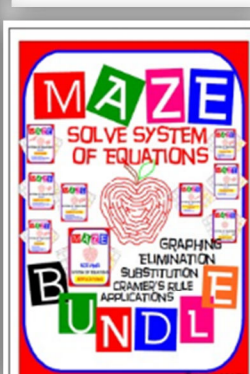
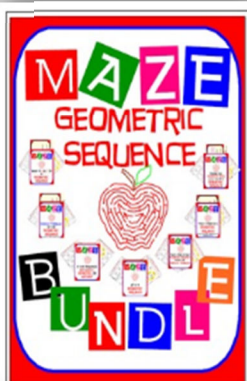
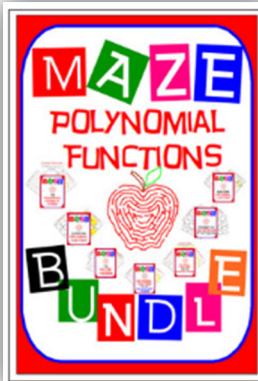
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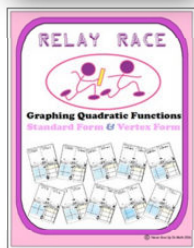
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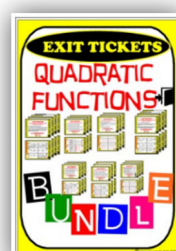
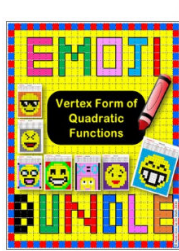
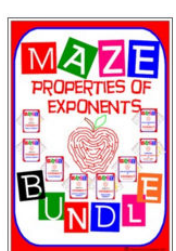
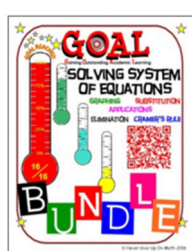


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