

The Remainder and Factor Theorems Worksheet

Divide using synthetic division and write your answer in the following form:

$$\text{dividend} = \text{quotient} \cdot \text{divisor} + \text{remainder}$$

Is the binomial a factor of the polynomial?

1. $(2x^3 + 5x^2 - 9x + 20) \div (x + 4)$

$$\begin{array}{r|rrrr} -4 & 2 & 5 & -9 & 20 \\ & & -8 & 12 & -12 \\ \hline & 2 & -3 & 3 & 8 \end{array}$$

$$2x^3 + 5x^2 - 9x + 20 = (2x^2 - 3x + 3)(x + 4) + 8$$

$x + 4$ is not a factor

2. $(3x^4 - 9x^3 - 32x^2 + 54) \div (x - 5)$

$$\begin{array}{r|rrrrr} 5 & 3 & -9 & -32 & 0 & 54 \\ & & 15 & 30 & -10 & -50 \\ \hline & 3 & 6 & -2 & -10 & 4 \end{array}$$

$$3x^4 - 9x^3 - 32x^2 + 54 = (3x^3 + 6x^2 - 2x - 10)(x - 5) + 4$$

$x - 5$ is not a factor

Given a polynomial and one of its factors, find the remaining factors of the polynomial.
Some factors may not be binomials.

3. $x^3 - 11x^2 + 36x - 36; x - 6$

$$\begin{array}{r|rrrr} 6 & 1 & -11 & 36 & -36 \\ & & 6 & -30 & 36 \\ \hline & 1 & -5 & 6 & 0 \end{array}$$

$$x^2 - 5x + 6 = (x - 3)(x + 2)$$

4. $2x^3 + 15x^2 - 14x - 48; x - 2$

$$\begin{array}{r|rrrr} 2 & 2 & 15 & -14 & -48 \\ & & 4 & 38 & 44 \\ \hline & 2 & 19 & 24 & 0 \end{array}$$

$$2x^2 + 19x + 24 = (2x + 3)(x + 8)$$

5. $x^4 - 3x^3 + 27x - 81; x - 3$

$$\begin{array}{r|rrrrr} 3 & 1 & -3 & 0 & 27 & -81 \\ & & 3 & 0 & 0 & 81 \\ \hline & 1 & 0 & 0 & 27 & 0 \end{array}$$

$$x^3 + 27 = (x + 3)(x^2 - 3x + 9)$$

Find values for k so that each remainder is 5.

6. $(x^3 + 4x^2 + kx + 8) \div (x + 2)$

Since $f(-2)$ is the remainder, let $f(-2) = 5$

$$(-2)^3 + 4(-2)^2 + k(-2) + 8 = 5$$

$$-8 + 16 - 2k + 8 = 5$$

$$-2k = -11$$

$$k = 5.5$$

7. $(x^2 + 2x + 6) \div (x + k)$

Since $f(-k)$ is the remainder, let $f(-k) = 5$

$$(-k)^2 + 2(-k) + 6 = 5$$

$$k^2 - 2k + 1 = 0$$

$$(k - 1)^2 = 0$$

$$k - 1 = 0$$

$$k = 1$$

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Harriet R. Kinghorn



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