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[Finding The Zeros Of A Function Worksheet](#)

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

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

$x + 4$ is not a factor

-4	2	5	-9	20	
		-8	12	-12	
2	-3	3		8	

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

5	3	-9	-32	0	54	
	15	30	-10	-50		
3	6	-2	-10		4	

$x - 5$ is not a factor

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

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

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

6	1	-11	36	-36	
	6	-30	36		
1	-5	6		0	

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

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

2	2	15	-14	-48	
	4	38	48		
2	19	24		0	

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

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

3	1	-3	0	27	-81	
	3	0	0	81		
1	0	0	27		0	

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

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 $f(-2) = 5$

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

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

$$-2k = -11 \rightarrow k = 5.5$$

7. $(x^2 + 2x + 6) \div (x + k)$ Since $f(-k)$ is the remainder, let $f(-k) = 5$

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

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

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

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