

2.3 Exercises

See www.CalcChat.com for worked-out solutions to odd-numbered exercises. For instructions on how to use a graphing utility, see Appendix A.

Vocabulary and Concept Check

1. Two forms of the Division Algorithm are shown below. Identify and label each part.

$$f(x) = d(x)q(x) + r(x) \qquad \frac{f(x)}{d(x)} = q(x) + \frac{r(x)}{d(x)}$$

In Exercises 2–5, fill in the blank(s).

- The rational expression $p(x)/q(x)$ is called _____ when the degree of the numerator is greater than or equal to that of the denominator.
- Every rational zero of a polynomial function with integer coefficients has the form p/q , where p is a factor of the _____ and q is a factor of the _____.
- The theorem that can be used to determine the possible numbers of positive real zeros and negative real zeros of a function is called _____ of _____.
- A real number c is a(n) _____ bound for the real zeros of f when no zeros are greater than c , and is a(n) _____ bound when no real zeros of f are less than c .
- How many negative real zeros are possible for a polynomial function $f(x)$, given that $f(-x)$ has 5 variations in sign?
- You divide the polynomial $f(x)$ by $(x - 4)$ and obtain a remainder of 7. What is $f(4)$?
- What value should you write in the circle to check whether $(x - 3)$ is a factor of $f(x) = x^3 - 2x^2 + 3x + 4$?

○ 1 -2 3 4

Procedures and Problem Solving

Long Division of Polynomials In Exercises 9–22, use long division to divide.

- ✓ Divide $2x^2 + 10x + 12$ by $x + 3$.
- Divide $5x^2 - 17x - 12$ by $x - 4$.
- Divide $x^4 + 5x^3 + 6x^2 - x - 2$ by $x + 2$.
- Divide $x^3 - 4x^2 - 17x + 6$ by $x - 3$.
- Divide $4x^3 - 7x^2 - 11x + 5$ by $4x + 5$.
- Divide $2x^3 - 3x^2 - 50x + 75$ by $2x - 3$.
- ✓ Divide $7x^3 + 3$ by $x + 2$.
- Divide $8x^4 - 5$ by $2x + 1$.
- ✓ Divide $(x + 8 + 6x^3 + 10x^2) \div (2x^2 + 1)$.
- $(1 + 3x^2 + x^4) \div (3 - 2x + x^2)$
- $(x^3 - 9) \div (x^2 + 1)$
- $(x^5 + 7) \div (x^3 - 1)$
- $\frac{2x^4 - 4x^2 - 15x + 5}{(x - 1)^2}$
- $\frac{x^4}{(x - 1)^3}$

Using Synthetic Division In Exercises 23–32, use synthetic division to divide.

- ✓ $(3x^3 - 17x^2 + 15x - 25) \div (x - 5)$
- $(5x^3 + 18x^2 + 7x - 6) \div (x + 3)$
- $(6x^3 + 7x^2 - x + 26) \div (x - 3)$
- $(2x^3 + 14x^2 - 20x + 7) \div (x + 6)$
- $(9x^3 - 18x^2 - 16x + 32) \div (x - 2)$
- $(5x^3 + 6x + 8) \div (x + 2)$

29. $(x^3 + 512) \div (x + 8)$

30. $(x^3 - 729) \div (x - 9)$

31. $\frac{4x^3 + 16x^2 - 23x - 15}{x + \frac{1}{2}}$

32. $\frac{3x^3 - 4x^2 + 5}{x - \frac{1}{2}}$

Verifying Quotients In Exercises 33–36, use a graphing utility to graph the two equations in the same viewing window. Use the graphs to verify that the expressions are equivalent. Verify the results algebraically.

33. $y_1 = \frac{x^2}{x + 2}, \quad y_2 = x - 2 + \frac{4}{x + 2}$

34. $y_1 = \frac{x^2 + 2x - 1}{x + 3}, \quad y_2 = x - 1 + \frac{2}{x + 3}$

35. $y_1 = \frac{x^4 - 3x^2 - 1}{x^2 + 5}, \quad y_2 = x^2 - 8 + \frac{39}{x^2 + 5}$

36. $y_1 = \frac{x^4 + x^2 - 1}{x^2 + 1}, \quad y_2 = x^2 - \frac{1}{x^2 + 1}$

Verifying the Remainder Theorem In Exercises 37–42, write the function in the form $f(x) = (x - k)q(x) + r(x)$ for the given value of k . Use a graphing utility to demonstrate that $f(k) = r$.

Function	Value of k
37. $f(x) = x^3 - x^2 - 14x + 11$	$k = 4$
38. $f(x) = 15x^4 + 10x^3 - 6x^2 + 14$	$k = -\frac{2}{5}$

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Precalculus Ron Larson, Robert P. Hostetler, 2003-01-29 **Essentials of Precalculus with Calculus Previews** Dennis G. Zill, Jacqueline M. Dewar, 2014-12

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Precalculus with Calculus Previews Dennis G. Zill, Jacqueline M. Dewar, 2015-11-03

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Precalculus Munem-Yizze, Mustafa A. Munem, 2000-08-25

[Functions Modeling Change](#) Eric Connally, Deborah Hughes-Hallett, Andrew M. Gleason, 2019-02-20

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Complete Solutions Manual [for] Precalculus, Mathematics for Calculus, Sixth Edition Andrew Bulman-Fleming, 2012

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Precalculus Mark Dugopolski,2001 Building on Mark Dugopolski s name this graphing optional text is designed for the one or two semester precalculus course With faster pacing and less review this is an excellent choice for those students going on to calculus

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