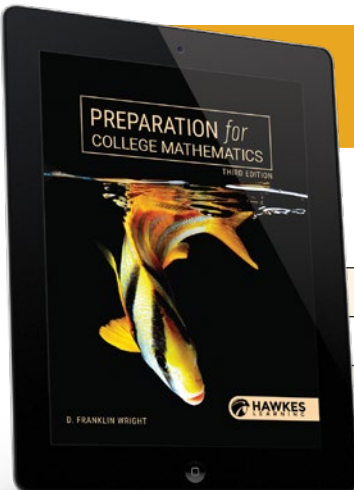


Preparation for College Mathematics, 3rd Edition

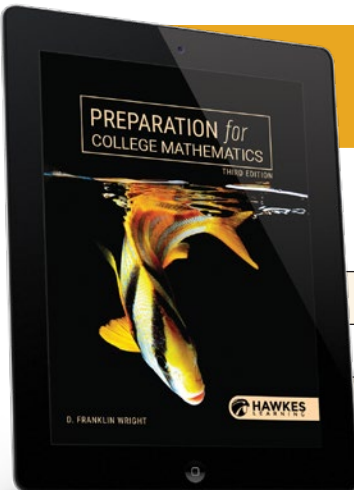
Question Bank Enhancements



<i>Lesson</i>	<i>New Serial Numbers</i>	<i>What Changed</i>
2.6	26	Added 1 new question on translating English phrases into algebraic expressions.
5.5	26	Added 1 new application question on calculating compound interest.
5.6	16	Added 1 new 1-part application question on reading circle graphs (a replacement option for an existing 5-part question).
6.7	39–43	Added 2 new questions on finding the area of circles. Added 3 new 2-part questions on finding the perimeter and area of figures involving circles.
7.1	23, 24	Added 2 new questions on illustrating the distributive property.
7.4	52–54	Added 3 new questions on solving linear equations involving fractions.
7.5	43	Added 1 new question to offer a version of SN 21 with more variation.
7.6	88	Added 1 new application question on linear equations.
7.7	34	Added 1 new application question on linear equations.
7.11	30, 31	Added 2 new questions on absolute value inequalities.
8.1	24	Added 1 new question on identifying points on horizontal and vertical lines.
8.3	44–48	Added 4 new questions on writing equations in slope-intercept form and 1 new question on identifying the slope and y-intercept given the graph of a line.
8.4	55	Added 1 new question on finding equations of lines perpendicular to given lines.
8.5	44, 45	Added 2 new questions on evaluating functions to offer more 1-step questions on this topic.
8.6	20–28	Added 9 new multiple-choice questions on graphing linear inequalities.
9.2	37, 38	Added 2 new questions on solving systems of linear equations by substitution, including 1 application question.
9.4	48–50	Added 3 new application questions on setting up and solving systems of linear equations.
9.5	26	Added 1 new application question on setting up and solving systems of linear equations.
9.6	11–17	Added 7 new application questions on setting up and solving systems of linear equations with three variables.
9.8	10–12	Added 3 new multiple-choice questions on graphing systems of linear inequalities.
10.1	48–50	Added 3 new questions on simplifying expressions using the rules for exponents, including 1 High Level of Difficulty question.
10.2	40	Added 1 new question with High Level of Difficulty on simplifying expressions using the power rules for exponents.
10.4	45–50	Added 2 new application questions on evaluating polynomial functions and 3 new questions on simplifying and classifying polynomials.
10.5	33–35	Added 3 new questions on addition and subtraction with polynomials, including 1 question with High Level of Difficulty.
10.6	49	Added 1 new question on multiplying three binomials.
10.7	30–32	Added 3 new questions with High Level of Difficulty on finding special products of binomials.
10.8	30	Added 1 new application question on division with polynomials.
10.9	6–13	Added 4 new questions on using synthetic division to divide polynomials, including 2 application questions and 2 questions with High Level of Difficulty. Added 4 new questions on the Remainder Theorem.

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Question Bank Enhancements



<i>Lesson</i>	<i>New Serial Numbers</i>	<i>What Changed</i>
11.1	64	Added 1 new question on factoring by grouping with GCF not equal to 1.
11.2	22	Added 1 new question with High Level of Difficulty on factoring trinomials with GCF not equal to 1.
11.3	36	Added 1 new question with High Level of Difficulty on factoring trinomials in two variables.
11.4	54–57	Added 4 new questions with High Level of Difficulty on special factoring techniques.
11.5	47–49	Added 3 new questions with High Level of Difficulty on factoring polynomials.
11.6	39–42	Added 4 new questions on solving polynomial equations by factoring.
12.1	61, 62	Added 2 new questions on reducing rational expressions, including 1 application question.
12.2	46–49	Added 4 new questions on multiplying and dividing with rational expressions, including 1 question with High Level of Difficulty.
12.4	46–51	Added 6 new questions on adding and subtracting with rational expressions, including 1 question with High Level of Difficulty.
12.6	59–61	Added 3 new questions on using proportions to relate similar triangles.
12.8	24	Added 1 new application question on direct variation.
13.1	47, 48	Added 2 new questions on evaluating radicals.
13.2	36, 37	Added 2 new questions on simplifying square roots and cube roots.
14.1	28–30	Added 1 new application question on solving a quadratic equation related to the Pythagorean Theorem. Added 2 new questions on using the square root method to solve a quadratic equation, including 1 application question.
14.2	27	Added 1 new application question on solving quadratic equations by completing the square.
14.3	53–56	Added 3 new questions on solving quadratic equations using the quadratic formula, including 2 application questions. Added 1 new question on finding and interpreting the discriminant of a quadratic equation.
14.6	15–17	Added 3 new questions related to graphing quadratic equations in vertex form, including finding the domain and range.
14.7	23, 24	Added 2 new application questions on finding maximum and minimum values of quadratic functions.
15.2	17–20	Added 4 new questions on finding the inverses of functions.
15.7	37–39	Added 3 new questions on solving exponential equations where the bases are not the same.
15.8	29	Added 1 new conceptual question on applications of exponential and logarithmic functions.
16.2	8 – 11	Added 4 new single-step questions on finding the vertex, y -intercepts, line of symmetry, and direction of horizontal parabolas to offer alternatives to Serial Numbers 1 – 4 (four-step questions).
16.4	6 – 10	Added 2 new questions on finding the center and vertices of an ellipse. Added 3 new questions on finding the center, vertices, and asymptotes of a hyperbola.
16.5	8 – 10	Added 1 new question on finding the point(s) of intersection for a nonlinear system of equations. Added 2 new multiple-choice questions on graphing nonlinear systems of equations.