

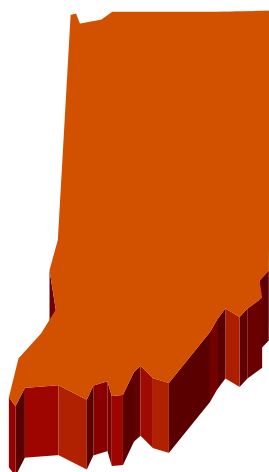
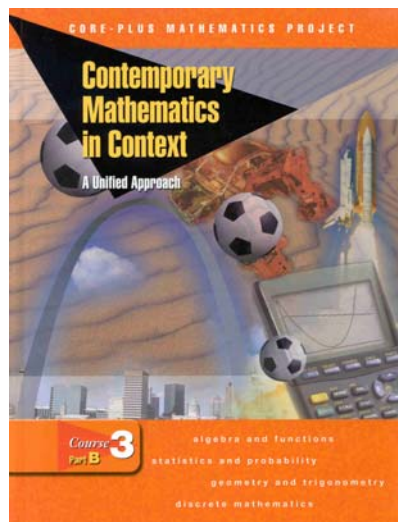
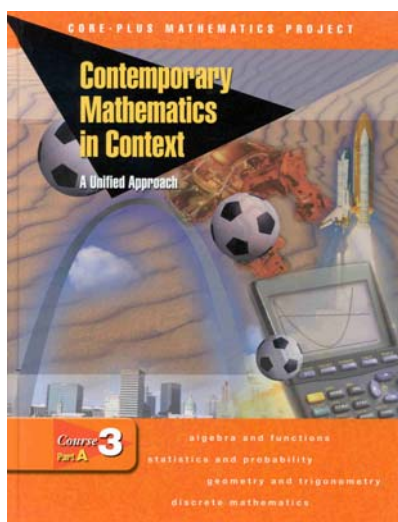
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**alignment to**

## **Indiana Academic Math Standards Integrated Mathematics III**

This correlation of Glencoe/McGraw-Hill Contemporary Mathematics in Context contains page references to both Volume A and Volume B.

Course 3, Volume A: 1-344

Course 3, Volume B: 345-568

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<b>Standard 1: Algebra and Functions</b>	
IM3.1.1 Solve combined linear inequalities.	SE: 59, 63–66, 68–73, 74–77, 78–79, 82–85  TWE: T59, T63–T66, T68–T73, T74–T77, T78–T79, T82–T85
IM3.1.2 Use a graph to find the solution set of a pair of linear inequalities in two variables.	SE: 56, 59, 63–67, 68–73, 74–77, 78–79, 80–83  TWE: T56, T59, T63–T67, T68–T73, T74–T77, T78–T79, T80–T83
IM3.1.3 Find a common monomial factor in a polynomial.	SE: 187–191, 192–196, 197–200, 204–207, 218, 249  TWE: T187–T191, T192–T196, T197–T200, T204–T207, T218, T249  (See Course 4, 178, 192–200)
IM3.1.4 Factor the difference of two squares and other quadratics.	SE: 209, 212–211, 212–214  TWE: T209, T212–T211, T212–T214
IM3.1.5 Simplify algebraic ratios.	SE: 215–217, 218–219, 322  TWE: T215–T217, T218–T219, T322  (See Course 4, 178)
IM3.1.6 Solve algebraic proportions.	SE: 14–15, 21, 28–31, 32–35, 36–39, 40–45, 322  TWE: T14–T15, T21, T28–T31, T32–T35, T36–T39, T40–T45, T322

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.7 Solve quadratic equations by factoring.	SE: 208–211, 212–214, 231–232, 234–239  TWE: T208–T211, T212–T214, T231–T232, T234–T239
IM3.1.8 Solve quadratic equations in which a perfect square equals a constant.	SE: 209–211, 212–213, 220–221, 223  TWE: T209–T211, T212–T213, T220–T213, T223  (See Course 2, 286)
IM3.1.9 Complete the square to solve quadratic equations.	SE: 224  TWE: T224
IM3.1.10 Derive the quadratic formula by completing the square.	SE: 242, 479  TWE: T242, T479
IM3.1.11 Solve equations that contain radical expressions.	SE: 353, 356, 359–361, 367, 370  TWE: T353, T356, T359–T361, T367, T370  (See Course 2, 305–306, 316, and Course 4, 405)
IM3.1.12 Recognize and graph various types of functions, including polynomials, rational, and algebraic functions.	SE: 46–48, 49–51, 52–56, 57–60, 170–174, 175–178, 179–186, 422–427, 428–430, 431–433, 439–440, 462–465, 466–468, 473, 480–485  TWE: T46–T48, T49–T51, T52–T56, T57–T60, T170–T174, T175–T178, T179–T186, T422–T427, T428–T430, T431–T433, T439–T440, T462–T465, T466–T468, T473, T480–T485

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.13 Use function notation. Add, subtract, multiply, and divide pairs of functions.	SE: 171–174, 175–178, 180–186, 207, 215–224, 255, 456, 458  TWE: T171–T174, T175–T178, T180–T186, T207, T215–T224, T255, T456, T458
IM3.1.14 Understand composition of functions and combine functions by composition.	Opportunity to address  SE: 186, 448  TWE: T186, T448  (See Course 4, 142–155)
IM3.1.15 Graph relations and functions with and without graphing technology.	SE: 186, 429, 431–433, 438, 441–445, 446, 449–452, 453–459, 460, 462–465, 466–468, 469–479, 522  TWE: T186, T429, T431–T433, T438, T441–T445, T446, T449–T452, T453–T459, T460, T462–T465, T466–T468, T469–T479, T522
IM3.1.16 Find the zeros of a function.	SE: 208–212, 221, 229–233, 237, 444, 458  TWE: T208–T212, T221, T229–T233, T237, T444, T458
IM3.1.17 Solve an inequality by examining the graph.	SE: 49–51, 54–56, 59–60, 63–67, 68–73, 74–77, 78–79, 82–83, 233  TWE: T49–T51, T54–T56, T59–T60, T63–T67, T68–T73, T74–T77, T78–T79, T82–T83, T233

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**ACADEMIC MATH STANDARDS FOR INTEGRATED MATHEMATICS III**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.18 Graph functions defined piecewise.	SE: 185–186  TWE: T185–T186  (See Course 4, 155)
IM3.1.19 Graph absolute value equations and inequalities.	SE: 442–443, 447, 451, 463–466  TWE: T442–T443, T447, T451, T463–T466
IM3.1.20 Use substitution, elimination, and matrices to solve systems of two or three equations in two or three variables.	SE: 74–77, 78–83  TWE: T74–T77, T78–T83  (See Course 2, 59–74, 97–108 and Course 4, 336–368)
IM3.1.21 Use system of equations and inequalities to solve word problems.	SE: 47–48, 53–56, 57–59, 68–73, 74–77, 80–85  TWE: T47–T48, T53–T56, T57–T59, T68–T73, T74–T77, T80–T85
IM3.1.22 Define complex numbers and perform basic operations with them.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 390–403)
IM3.1.23 Understand how real and complex numbers are related, including plotting complex numbers as points in the plane.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 399, 494–498)
IM3.1.24 Solve quadratic equations in the complex number system.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3. (See Course 4, 390–403)

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.25 Solve word problems using quadratic equations.	SE: 218–219, 235–236 TWE: T218–T219, T235–T236
IM3.1.26 Solve equations that contain radical expressions.	See objective 11
IM3.1.27 Solve pairs of equations, one quadratic and one linear, or both quadratic.	SE: 54–55, 58, 60, 225 TWE: T54–T55, T58, T60, T225
IM3.1.28 Write the equations of conic sections (circle, ellipse, parabola, and hyperbola) and draw their graphs, using geometric properties.	SE: 211, 229–234, 248, 252, 475 TWE: T211, T229–T234, T248, T252, T475 (See Course 4, 527–534)
IM3.1.29 Understand the relationship between conic sections and slicing a cone.	This objective falls outside the scope of Glencoe/McGraw-Hill Contemporary math in Context, Course 3. (See Course 4, 527–534)
IM3.1.30 Understand the binomial theorem and use it to expand binomial expressions raised to positive integer powers.	This objective falls outside the scope of Glencoe/McGraw-Hill Contemporary math in Context, Course 3. (See Course 4, 245–249)
IM3.1.31 Divide polynomials by others of lower degree.	SE: 215–218, 221, 223 TWE: T215–T218, T221, T223 (See Course 4, 385–390)
IM3.1.32 Factor polynomials completely and solve polynomials by factoring.	SE: 209–211, 212–214, 220 TWE: T209–T211, T212–T214, T220 (See Course 4, 360–379, 382–403)

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.33 Use graphing technology to find approximate solutions for polynomial equations.	SE: 231, 232  TWE: T231, 232  (See Course 2, 315, and Course 4, 360–379, 396, 403)
IM3.1.34 Use polynomial equations to solve word problems.	SE: 201, 203, 204  TWE: T201, T203, T204  (See Course 4, 360–379)
IM3.1.35 Write a polynomial equation given its solutions.	SE: 196, 212, 214, 220, 235  TWE: T196, T212, T214, T220, T235  (See Course 4, 360–365, 376)
IM3.1.36 Understand and describe the relationships among the solutions of an equation, the zeros of a function, the x-intercepts of the graph, and the factors of a polynomial expression.	SE: 210, 229–233, 234  TWE: T210, T229–T233, T234  (See Course 2, 238–241, and Course 4, 360–379)
IM3.1.37 Understand and use negative and fractional exponents.	The opportunity to introduce this objective is available. See the following:  SE: 427, 432, 438  TWE: T427, T432, T438  (See Course 2, 298–310, and Course 4, 436–440, 507)
IM3.1.38 Add, subtract, multiply, divide, and simplify algebraic fractions.	SE: 215–218  TWE: T215–T218  (See Course 4, 397, 402–403, 421–426, 456–506)

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.39 Simplify complex fractions.	The opportunity to address this objective is available. See the following:  SE: 215–218  TWE: T215–T218  (See Course 4, 402–403, 421–426, 456)
IM3.1.40 Solve equations involving algebraic fractions.	SE: 217–218  TWE: T217–T218  (See Course 4, 402–403, 421–426, 430–431, 456)
IM3.1.41 Solve word problems involving fractional equations.	SE: 218–219  TWE: T218–T219  (See Course 4, 416–425, 430–431)
IM3.1.42 Solve problems of direct, inverse, and joint variation.	SE: 6–10, 14–16, 17–18, 50, 86–88, 426, 427, 439, 503–504  TWE: T6–T10, T14–T16, T17–T18, T50, T86–T88, T426, T427, T439, T503–T504
IM3.1.43 Prove simple laws of logarithms.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 164–168, 444–447)
IM3.1.44 Understand and use the inverse relationship between exponents and logarithms.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 158–179, 440–455)

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.45 Solve logarithmic and exponential equations and inequalities.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 164–167, 175–177, 440–455)
IM3.1.46 Use the definition of logarithms to translate between logarithms to any base.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 444)
IM3.1.47 Use the properties of logarithms to simplify logarithmic expressions and to find their approximate values.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 164–168, 173–177, 440–455, 457)
IM3.1.48 Use calculators to find decimal approximations of natural and common logarithmic numeric expressions.	This objective falls outside the scope of Glencoe/McGraw-Hill Cotemporary math in Context, Course 3.  (See Course 4, 168–172)
IM3.1.49 Solve word problems involving applications of exponential functions to growth and decay.	SE: 424–425, 434, 436, 448, 454, 459  TWE: T424–T425, T434, T436, T448, T454, T459  (See Course 1, 419–479 and Course 4, 164–168, 175–177, 436–455)
IM3.1.50 Define arithmetic and geometric sequences and series.	SE: 506–510, 511–515  TWE: T506–T510, T511–T515
IM3.1.51 Find specified terms of arithmetic and geometric sequences.	SE: 506–510, 511–515, 519–529  TWE: T506–T510, T511–T515, T519–T529

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.1.52 Find partial sums of arithmetic and geometric series.	SE: 511–515, 519–529 TWE: T511–T515, T519–T529
IM3.1.53 Solve word problems involving applications of sequences and series.	SE: 506–510, 511–515, 519–529 TWE: T506–T510, T511–T515, T519–T529
<b>Standard 2: Geometry and Measurement</b>	
IM3.2.1 Understand and use the relationships between special pairs of angles formed by parallel lines and transversals.	SE: 282–287, 288–293 TWE: T282–T287, T288–T293
IM3.2.2 Use coordinate geometry to find slopes, parallel lines, perpendicular lines, and equations of lines.	The opportunity to address this objective is available. See the following:  SE: 243–244, 247, 286–287, 290, 313, 325–330  TWE: T243–T244, T247, T286–T287, T290, T313, T325–T330  (See Course 2, 80–82, 87–90, 92, 96)
IM3.2.3 Use properties of congruent and similar polygons to solve problems.	SE: 297–303, 304–309, 310–315, 316–318, 319–324  TWE: T297–T303, T304–T309, T310–T315, T316–T318, T319–T324
IM3.2.4 Use coordinate geometry to prove properties of polygons such as regularity, congruence, and similarity.	SE: 325–329, 330–332, 333–329 TWE: T325–T329, T330–T332, T333–T329

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.2.5 Describe, classify, and understand relationships among quadrilaterals: square, rectangle, rhombus, parallelograms, trapezoid, and kite.	SE: 325–329, 330–332, 335–339 TWE: T325–T329, T330–T332, T335–T339
IM3.2.6 Use coordinate geometry to prove properties of quadrilaterals such as regularity.	SE: 325–339, 328, 330, 332, 336, 338 TWE: T325–T339, T328, T330, T332, T336, T338  (See Course 2, 89–90, 92, 96)
IM3.2.7 Construct triangles congruent to given triangles.	SE: 304–309, 316–318, 319–321 TWE: T304–T309, T316–T318, T319–T321
IM3.2.8 Prove and apply theorems involving segments divided proportionally.	SE: 282–296, 321–322 TWE: T282–T296, T321–T322
IM3.2.9 Prove that triangles are congruent or similar and use the concept of corresponding parts of congruent triangles.	SE: 297–303, 304–309, 310–315, 316–318, 319–324 TWE: T297–T303, T304–T309, T310–T315, T316–T318, T319–T324
IM3.2.10 Use coordinate geometry to prove properties of triangles such as regularity, congruence, and similarity.	SE: 313, 326–328 TWE: T313, T326–T328
IM3.2.11 Find the equation of a circle in the coordinate plane in terms of its center and radius.	SE: 248, 252, 475 TWE: T248, T252, T475

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.2.12 Describe and make regular and non-regular polyhedra.	The opportunity to address this objective is available. See the following:  SE: 19  TWE: T19  (See Course 1, 329–345)
IM3.2.13 Describe the polyhedron that can be made from a given net (or pattern). Describe the net for a given polygon.	The opportunity to introduce this objective is available. See the following:  SE: 19  TWE: T19  (See Course 1, 352, 393, 397, 416)
IM3.2.14 Identify and know properties of congruent and similar solids.	The opportunity to address this objective is available. See the following:  SE: 298–303, 304–309  TWE: T298–T303, T304–T309  (See Course 1, 373–382, and Course 2, 234–237, 347–248)
<b>Standard 3: Data Analysis and Statistics</b>	
IM3.3.1 Understand and apply basic ideas related to the design and interpretation of surveys, such as background information, random sampling, and bias.	SE: 115–120, 121–123, 134–127  TWE: T115–T120, T121–T134

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.3.2 Construct simulated sampling distributions of sample proportions and use sampling distributions to identify which proportions are likely to be found in a sample of a given size.	SE: 135–139, 140–142, 143–147, 148–152, 166, 168  TWE: T135–T139, T140–T142, T143–T147, T148–T152, T166, T168
IM3.3.3 Construct and interpret margin of error and confidence intervals for population proportions.	SE: 153–158, 159–164, 167–168  TWE: T153–T158, T159–T164, T167–T168
IM3.3.4 Understand the standard deviation as a measure of variability in a distribution.	SE: 346–350, 351–354, 355–361, 363–370, 375–376, 378, 385–393, 402–404, 417–418  TWE: T346–T350, T351–T354, T355–T361, T363–T370, T375–T376, T378, T385–T393, T402–T404, T417–T418
<b>Standard 4: Probability</b>	
IM3.4.1 Understand and apply the Addition Rule for mutually exclusive events.	SE: 405–410, 416  TWE: T405–T410, T416
<b>Standard 5: Discrete Mathematics</b>	
IM3.5.1 Use iteration and recursion as tools to represent, analyze, and solve problems involving sequential change.	SE: 488–490, 491–493, 494–504, 530–533  TWE: T488–T490, T491–T493, T494–T504, T530–T533
IM3.5.2 Explore function iteration and, in the process, informally introduce function composition.	SE: 530–533, 534–536, 537–545  TWE: T530–T533, T534–T536, T537–T545

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.5.3 Understand and apply recursion equations, particularly combined recursion equations of the form $A_n = rA_{n-1} + b$	SE: 505–510, 511–514, 519–529, 530–533  TWE: T505–T510, T511–T514, T519–T529, T530–T533
<b>Standard 6: Trigonometry</b>	
IM3.6.1 Find the measures of sides and angles in triangles using the Law of Sines.	SE: 28–31, 36–39, 40–45  TWE: T28–T31, T36–T39, T40–T45
IM3.6.2 Find the measures of sides and angles in triangles using the Law of Cosines.	SE: 32–35, 36–39, 40–45  TWE: T32–T35, T36–T39, T40–T45
IM3.6.3 Compare and contrast families of trigonometric functions.	SE: 428–430, 431–433, 444, 449–452  TWE: T177, T183, T432, T444  (See Course 4, 461–462)
<b>Standard 7: Mathematical Reasoning and Problem Solving</b>	
IM3.7.1 Understand that the logic of equation solving begins with the assumption that the variable is a number that satisfies the equation, and that the steps taken when solving equations create new equations that have, in most cases, the same solution set as the original. Understand that similar logic applies to solving systems of equations simultaneously.	SE: 1–5, 6–10, 11–13, 14–15, 16–24, 25–27, 28–31, 32–25, 36–39, 40–45, 51, 62, 83, 88–90, 225–228, 229–233, 234–239, 240–243, 249, 251, 252  TWE: T1–T5, T6–T10, T11–T13, T14–T15, T16–T24, T25–T27, T28–T31, T32–T25, T36–T39, T40–T45, T51, T62, T83, T88–T90, T225–T228, T229–T233, T234–T239, T240–T243, T249, T251, T252

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.7.2 Decide whether a given algebraic statement is true always, sometimes, or never (statements involving linear or quadratic expressions, equations, inequalities).	SE: 46–48, 49–51, 52–56, 57–62, 63–67, 68–73, 74–77, 78–79, 80–85, 86–90, 229–234, 235–239, 254–257  TWE: T46–T48, T49–T51, T52–T56, T57–T62, T63–T67, T68–T73, T74–T77, T78–T79, T80–T85, T86–T90, T229–T234, T235–T239, T254–T257
IM3.7.3 Distinguish between inductive and deductive reasoning, identifying, and providing examples of each.	SE: 266–271, 275  TWE: T266–T271, T275
IM3.7.4 Identify the hypothesis and conclusion in a logical deduction.	SE: 266–271, 275  TWE: T266–T271, T275
IM3.7.5 Use counterexamples to show that statements are false, recognizing that a single counterexample is sufficient to prove a general statement false.	SE: 266–269, 271  TWE: T266–T269, T271  (See Course 2, 87, 234, 293)

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.7.6 Use properties of number systems and the order of operations to justify the steps of simplifying functions and solving equations.	<p>SE: 14–15, 16–24, 25–27, 28–31, 32–36, 37–39, 40–45, 51, 62, 88–90, 192–196, 197–200, 201–207, 208–211, 212–214, 215–217, 225–228, 237, 242–243, 245–246, 248–249, 251, 252</p> <p>TWE: T14–T15, T16–T24, T25–T27, T28–T31, T32–T36, T37–T39, T40–T45, T51, T62, T88–T90, T192–T196, T197–T200, T201–T207, T208–T211, T212–T214, T215–T217, T225–T228, T237, T242–T243, T245–T246, T248–T249, T251, T252</p>
IM3.7.7 Identify and give examples of undefined terms, axioms, and theorems, and inductive and deductive proof.	<p>SE: 29, 279–281, 282–287, 288–296, 297–303, 304–309, 310–315, 316–318, 319–324, 325–329, 330–332, 333–339, 340–344</p> <p>TWE: T29, T279–T281, T282–T287, T288–T296, T297–T303, T304–T309, T310–T315, T316–T318, T319–T324, T325–T329, T330–T332, T333–T339, T340–T344</p>

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**ACADEMIC MATH STANDARDS FOR INTEGRATED MATHEMATICS III**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
IM3.7.8 Construct logical arguments, judge their validity, and give counterexamples to disprove statements.	SE: 240–242, 243–246, 247–252, 260–265, 266–271, 272–278, 279–281, 282–287, 288–296, 297–303, 304–309, 310–315, 316–318, 319–324, 325–329, 330–332, 333–339, 340–344  TWE: T240–T242, T243–T246, T247–T252, T260–T265, T266–T271, T272–T278, T279–T281, T282–T287, T288–T296, T297–T303, T304–T309, T310–T315, T316–T318, T319–T324, T325–T329, T330–T332, T333–T339, T340–T344

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