

Practice Problems

1) Let $n \in \mathbb{Z}$, if n^2 is odd then n is odd.

By contrapositive:

If n is even, then n^2 is even

$$n = 2k \quad (k \in \mathbb{Z})$$

$$n^2 = (2k)^2$$

$$= 4k^2$$

$$= 2(2k^2) \text{ even } \checkmark$$

2) Let $a, b, c \in \mathbb{Z}$. If $a \mid bc$ then $a \mid b$ and $a \mid c$.

By contrapositive:

If $a \mid b$ or $a \mid c$ then $a \mid bc$

$$a \mid b \Rightarrow b = aa_1 \quad (a_1 \in \mathbb{Z}), \quad bc = aa_1c = a(a_1c) \text{ div by } a \quad \checkmark$$

$$a \mid c \Rightarrow c = aa_2 \quad (a_2 \in \mathbb{Z}), \quad bc = baa_2 = a(ba_2) \text{ div by } a \quad \checkmark$$

3) Let $x \in \mathbb{R}$. If $x^3 + x^2 + x - 3 < 0$ then $x < 1$

By contrapositive:

If $x \geq 1$, then $x^3 + x^2 + x - 3 \geq 0$

$$x^3 + x^2 + x - 3 \geq 1^3 + 1^2 + 1 - 3$$

$$0 \geq 0 \quad \checkmark$$

$$\text{Let } f(x) = x^3 + x^2 + x - 3 = 0$$

$$f(1) = 1^3 + 1^2 + 1 - 3 = 0$$

$f(x)$ is divisible by $x-1$

$$\begin{array}{r} x^3 + 2x + 3 \\ x-1 \overline{) x^3 + x^2 + x - 3} \\ \underline{x^3 - x^2} \\ 2x^2 + x - 3 \\ \underline{2x^2 - 2x} \\ 3x - 3 \\ \underline{3x - 3} \\ 0 \end{array}$$

$$\begin{aligned} \Rightarrow 0 > x^3 + x^2 + x - 3 &= (x-1)(x^2 + 2x + 3) \\ &= (x^2 + 2x + 1) + 2 \\ &= (x+1)^2 + 2 \geq 2 > 0 \\ &\geq 0 \end{aligned}$$

Math Practice 78

Gerald Aungst

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Math Practice 78:

Mathematics Formative Assessment, Volume 2 Page Keeley, Cheryl Rose Tobey, 2016-12-08 This one of a kind resource helps you build a bridge between your students initial ideas and correct mathematical thinking Includes an annotated reference guide *Eureka Math Grade 5 Study Guide* Great Minds, 2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 5 provides an overview of all of the Grade 5 modules including Place Value and Decimal Fractions Multi Digit Whole Number and Decimal Fraction Operations Addition and Subtraction of Fractions Multiplication and Division of Fractions and Decimal Fractions Addition and Multiplication with Volume and Areal Problem Solving with the Coordinate Plane [Eureka Math Grade 8 Study Guide](#) Great Minds, 2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the

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Gerald Aungst, 2015-10-09 Students pursue problems they re curious about not problems they re told to solve Creating a math classroom filled with confident problem solvers starts with challenges discovered in the real world not a sequence of prescribed problems In this groundbreaking book Gerald Aungst offers five powerful principles for instilling a culture of learning in your classroom Conjecture Collaboration Communication Chaos and Celebration Aungst shows how to Embrace collaboration and purposeful chaos to engage students in productive struggle Put each chapter s principles into practice using a variety of strategies activities and technology tools Introduce lasting changes in your classroom through a gradual shift in processes and behaviors

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