

Simplify - 6

Show that:

(1)

$$\frac{x+2xy}{3x^2} \div \frac{2y+1}{6x} = 2$$

(2)

$$\frac{9-x^2}{x^4+6x^3} \div \frac{x^3-2x^2-3x}{x^2+7x+6} = -\frac{3+x}{x^4}$$

(3)

$$\frac{x+y}{\frac{1}{x} + \frac{1}{y}} = xy$$

(4)

$$\frac{x+y^2}{x^2} + \frac{x-1}{x} - 1 = \frac{y^2}{x^2}$$

(5)

$$\frac{1}{x+2} + \frac{1}{x-2} - \frac{x}{x^2-4} = \frac{x}{x^2-4}$$

(6)

$$\frac{2 + \frac{1}{x}}{2x^2 + x} = \frac{1}{x^2}$$

(7)

$$\frac{\left(\frac{x-1}{x}\right)}{\left(1+\frac{1}{x}\right)} = x-1$$

(8)

$$\frac{\left(\frac{1}{x^2} - 4\right)}{\left(\frac{1}{x} - 2\right)} = \frac{1+2x}{x}$$

(9)

$$\frac{\left(\frac{1}{x} + 1\right)}{\left(\frac{1}{x} - 1\right)} = \frac{1+x}{1-x}$$

(10)

$$\frac{6x^2 - x - 2}{\left(\frac{3x-2}{2x+1}\right)} = (2x+1)^2$$

(11)

$$\frac{\left(\frac{x^2y+xy^2}{x-y}\right)}{x+y} = \frac{xy}{x-y}$$

(12)

$$\frac{\left(x + \frac{2x}{x-2}\right)}{\left(1 + \frac{1}{x^2-4}\right)} = x+2$$

(13)

$$\frac{\left(\frac{x+1}{x-1} - \frac{x-1}{x+1}\right)}{\left(\frac{1}{x+1} + \frac{1}{x-1}\right)} = 2$$

(14)

$$\frac{x}{1 - \left(\frac{1}{1 + \frac{x}{y}}\right)} = x+y$$

(15)

$$2 - \frac{2}{1 - \left(\frac{2}{2 - \frac{2}{x^2}}\right)} = 2x^2$$

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Grade 12 Math Questions Answers

**Nélia Amado, Susana Carreira, Keith
Jones**



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Simple Steps for Fourth Grade Thinking Kids, Carson-Dellosa Publishing, 2015-12-14. Simple Steps for Fourth Grade helps your child master math and language arts skills such as addition, subtraction, numbers, multiplication, division, fractions, decimals, measurement, geometry, place value, grammar, punctuation, capitalization, usage, and sentence structure. A standards-based resource that simplifies key concepts for easy understanding. Simple Steps for Fourth Grade provides learners with easy-to-follow units, clear explanations, skill-reinforcing activities, and an answer key to check accuracy. By preparing students for today's rigorous academic standards, this comprehensive resource is ideal for supporting classroom learning and enhancing home-school curriculum. A unique workbook series that offers step-by-step guidance. Simple Steps breaks down essential concepts so that learners can develop a deep understanding of both math and ELA skills for improved academic performance. With Simple Steps for Fourth Grade, your child is one step closer to complete school success.

Broadening the Scope of Research on Mathematical Problem Solving Nélia Amado, Susana Carreira, Keith Jones, 2018-11-30. The innovative volume seeks to broaden the scope of research on mathematical problem solving in different educational environments. It brings together contributions not only from leading researchers but also highlights collaborations with younger researchers to broadly explore mathematical problem solving across many fields: mathematics education, psychology of education, technology education, mathematics popularization, and more. The volume's three major themes: technology, creativity, and affect represent key issues that are crucially embedded in the activity of problem solving in mathematics teaching and learning both within the school setting and beyond the school. Through the book's new pedagogical perspectives on these themes, it advances the field of research towards a more comprehensive approach on mathematical problem solving. *Broadening the Scope of Research on Mathematical Problem Solving* will prove to be a valuable resource for researchers and teachers interested in mathematical problem solving as well as researchers and teachers interested in technology, creativity, and affect.

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