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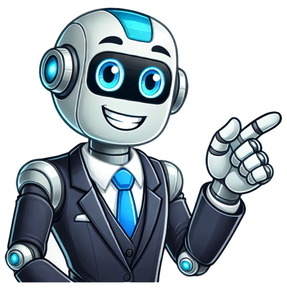

Intermediate algebra answers

−32−32 −65−65 −4−4 1313 97. 313. Hence we need to solve the inequality 4 + 4K > 0. INTERMEDIATE ALGEBRA - ALEKS 360 ACCESS6th EditionISBN: 9781264241590INTERMEDIATE ALGEBRA6th EditionISBN: 9781260728231Intermediate Algebra (Hardcover)4th EditionISBN: 9780073384498INTERMEDIATE ALGEBRA W/CONNECT+ALEKS 614th EditionISBN: 9781260033137INTERMEDIATE ALGEBRA-CONNECT+ACCESS4th EditionISBN: 9781260376074Connect Math hosted by ALEKS Access Card 52 Weeks for Intermediate Algebra4th EditionISBN: 9780077548704INTERMEDIATE ALGEBRA LOOSE-CUSTOM4th EditionISBN: 9781259331985Aleks 360 Access Card (18 Weeks) for Intermediate Algebra4th EditionISBN: 9780077844462ALEKS 360 Access Card (11 weeks) for Intermediate Algebra4th EditionISBN: 9780078120626INTERMEDIATE ALGEBRA-W/ACCESS4th EditionISBN: 9780077736880INTERMED ALGEBRA W/ ALEKS 360 >CIBIICICUSTOMIC 0 , 2 real solutions. 385. 1.57 27a−323627a−3236 2a32a3 1.58 24k−53024k−530 2k152k15 1.67 1.68 15.21815.218 15.2215.22 15.215.2 1.69 −16.49−16.49 −0.42−0.42 1.70 −23.593−23.593 −12.58−12.58 1.73 1.74 1.77 117500117500 −0.875−0.875 1.78 31253125 −0.375−0.375 1.79 0.09, 0.87, 0.039 17%, 175%, 8.25% 1.80 0.03, 0.91, 0.083 41%, 225%, 9.25% 1.83 4,494,49 −3,4,49−3,4,49 −3,0.3–,95,4,49−3,0.3–,95,4,49 −2−2 −3,−2,0.3–,95,4,49−3,−2,0.3–,95,4,49 1.84 6,1216,121 −25,−1,6,121−25,−1,6,121 −25,−38,−1,6,121−25,−38,−1,6,121 2.041975...2.041975... −25,−38,−1,6,121,2.041975...−25,−38,−1,6,121,2.041975... Hence = |4 + 72| - |5 - 11| = |76| - |-6| = 76 - 6 = 70 Evaluate: -18 + 4(6 ÷ 2)2 Solution According to order of operations, inner brackets first. Their sum is 388, hence the equation: x + (x + 2) + (x + 4) + (x + 6) = 388 Solve the above equation to find x = 94. Additional information is available in this support article. Find M so that the lines with equations -2x + My = 5 and 4y + x = -9 are perpendicular. Solve the equation: -5x + 20 = 25 Solve the inequality: -3x + 4 < -8 Solve the equation: 2x2 - 32 = 0 Solve the equation: -0.25 x + 1.3 = -0.55 x - 0.2 Solve the equation: -0.25 x2 + 1.5 = -10.75 What is the slope of a line perpendicular to the line x = -3? Slope of line L3 = (-3 - 7) / (3 + 1) = -10/3, L3 is neither horizontal nor vertical. Solve for x to obtain x = 120 km/hr. The total trip was 460 km. In the same cafeteria, 5 coffees and 7 donuts cost $17.15. If we multiply all terms of the first equation by 3, we obtain 6x - 3y = 12 For the two equations to be equivalent we must have 12 = 3K which when solved gives K = 4. 2 · 2 · 2 · 2 · 3 · 3 · 3 2 · 2 · 2 · 2 · 3 · 3 · 3 41. The solutions are at the bottom of the page. Solution Write the given number in the form a × 10 n , where a is a real number such that 1 ? a) What should be the selling price? On his way back to city A, he increased his speed by 20 km per hour and it took him 3 hours. 0.01 x 2 - 0.1 x - 0.3 = 0 In a cafeteria, 3 coffees and 4 donuts cost $10.05. Find the slope of the lines through the given points and state whether each line is vertical, horizontal or neither. After lunch his speed is 20 km/hr more than before lunch and is therefore x + 20. Hence = -18 + 36 = 18 Evaluate: 11 + sqrt(- 4 + 6×4÷3) Solution According to order of operations, inner brackets first where 6×4÷3 is first calculated since it has a multiplication and a division. (−4 + (−9)) + 23 ; 10 (−4 + (−9)) + 23 ; 10 417. There are a few reasons this might happen: You're a power user moving through this website with super-human speed. Slope of line L2 = (-3 - 3)/(4 - 4) = -6/0 undefined, vertical line. Intermediate algebra questions on various topics , with answers, are presented. 307. For what value of … Intermediate Algebra: Verified solutions & answers) for free step by step explanations answered by teachers Vaia Original! Intermediate algebra questions on various topics , with answers, are presented. Let x be the speed before lunch, hence the distance driven before lunch is equal to 2 x. According to the table, for x = 30 or x = 40 there are two possible values for the output. a) Find the average speed for the whole journey. − 21 a 2 11 b 2 − 21 a 2 11 b 2 183. Multiply all terms of the equation by 100 to obtain an equivalent equation with integer coefficients. After lunch he drove for 3 more hours at a speed that is 20 km/hour more than before lunch. Write … This free textbook is an OpenStax resource written to increase student access to high-quality, peer-reviewed learning materials. 11(y−2)11(y−2) 11y−211y−2 401. x 2 - 10 x - 30 = 0 Discrminant = (-10) 2 - 4(1)(-30) = 220 Solutions: x = (10 ± 2√55) / 2 = 5 ± √55 Let x be the price of 1 coffee and y be the price of 1 donut. This website uses cookies to improve your experience while you navigate through the website. Compare the following expressions: a) 2 -4 , b) (-2) -4 , c) (-1/2) 4 Evaluate and convert to scientific notation. If the perimeter of the field is 240 meters, what are the length and width of the field? Find the slope of the line perpendicular to the line y = (1/3)x - 7 Write an equation of the line with slope -3 and y-intercept (0 , -5). Hence = -18 + 4*9 According to order of operations, multiplication next. Hence -18 + 4(6 ÷ 2)2 = -18 + 4(3)2 According to order of operations, power next. These cookies will be stored in your browser only with your consent. ALGEBRA >II18th EditionISBN: 9781260788631INTERMEDIATE ALGEBRA-CONNECT+ ACCESS5th EditionISBN: 9781259948930INTERM ALGEBRA LL + ALEKS 3605th EditionISBN: 9781260147131Intermediate Algebra - Student Solution Manual5th EditionISBN: 9781259949029ALEKS 360 11 WEEK ACCESS18th EditionISBN: 9781260997798INTERMEDIATE ALGEBRA - ALEKS 360 18 WKS5th EditionISBN: 9781264078561ALEKS 360 52 WEEK ACCESS18th EditionISBN: 9781260784633ALEKS 360 ONLINE ACCESS (18 WEEKS) FOR2nd EditionISBN: 9781266885068Intermediate Algebra Fifth Edition Annotated Instructor's Edition 20185th EditionISBN: 9781259948886Aleks 360 Access Card (11 Weeks) For Intermediate Algebra5th EditionISBN: 9781259948787ALEKS 360 Access Card (18 weeks) for Beginning Algebra5th EditionISBN: 9781259936029Intermediate Algebra5th EditionISBN: 9781259948954ALEKS 360 18 WEEK ACCESS18th EditionISBN: 9781260784626INTERMEDIATE ALGEBRA CONNECT CUSTOM16th EditionISBN: 9781259694295INTERMEDIATE ALGEBRA ALEKS360 ACCESS >ICUSTOM5th EditionISBN: 9781260680805INTERMEDIATE ALGEBRA (LL)W/CONNECT5th EditionISBN: 9781260500066INT.ALGEBRA W/ALEKS 360 >BICUSTOMIPCUSTOM 4 Solve the equation: 2x2 - 32 = 0 Solution Add 32 both sides 2x2 - 32 + 32 = 0 + 32 Simplify 2x2 = 32 Divide both sides by 2 x2 = 16 Solve by extracting square root x = ± √(16) = ± 4 , two solutions Solve the equation: -0.25x + 1.3 = -0.55x - 0.2 Solve the equation: -0.25x2 + 1.5 = -10.75 What is the slope of a line perpendicular to the line x = -3? L = (7/5)W Perimeter: 2L + 2W = 240, 2(7/5)W + 2W = 240 Solve the above equation to find: W = 50 m and L = 70 m. Find step-by-step solutions and answers to Intermediate Algebra: Concepts and Applications - 9780134497174, as well as thousands of textbooks so you can move forward with confidence. Find step-by-step solutions and answers to Intermediate Algebra - 9780134197210, as well as thousands of textbooks so you can move forward with confidence. We first simplify each expression. Intermediate Algebra Problems With Answers - Sample 1 A set of intermediate algebra problems, with answers, are presented. 6 x 2 − x + 5 6 x 2 − x + 5 395. xy 1 - 104 11 - 206 21 - 308 30 - 4012 40 - 5016 51 - 6034 Solve the following quadratic equation. The four numbers are: 94, 96, 98 and 100. 213. (3 + (−15)) + 7 ; − 5 (3 + (−15)) + 7 ; − 5 129. Line L1 : (-2 , 3) and (8 , 3) Line L2 : (4 , 3) and (4 , -3) Line L3 : (-1 , 7) and (3 , -3) Find four consecutive even integer numbers whose sum is 388. How much do you have to pay for 4 coffees and 6 donuts? Going for a long trip, Thomas drove for 2 hours and had lunch. Solve for x to obtain: x = 3/(2 + k) The given equation has one solution for all real values of k not equal to -2. It took Malcom 3.5 hours to drive from city A to city B. 2 -4 = 1 / 2 4 = 1/16 (-2) -4 = 1 / (-2) 4 = 1/16 (-1/2) 4 = (-1) 4 / 2 4 = 1 / 16 The 3 expression simplify to the same value. As you were browsing something about your browser made us think you were a bot. Find Y so that the points A(0 , 0), B(2 , 2) and C(-4 , Y) are the vertices of a right triangle with hypotenuse AC. a) x 2 + (4 / 5) x = - 1/4 b) x 2 - 7 x + 10 = 0 c) x 2 - (2/3) x + 1/9= 0 Does the data in the table below represents y as a function of x? 2.43 p + 8.26 q 2.43 p + 8.26 q 355. What is the slope of a line parallel to the line x = 5? To regain access, please make sure that cookies and JavaScript are enabled before reloading the page. Let L be the length and W be the width. 1.85 1.86 1.87 1.88 1.89 1.90 1.103 1.105 1.106 11. Let x be the selling price: x - 20%x = 200,000 a) Solve for x to find x = $250,000 b) 20% *250,000 = $50,000 Let x be the salary before the increase. But opting out of some of these cookies may affect your browsing experience. John's annual salary after a raise of 15% is $45,000. A third-party browser plugin, such as Ghostery or NoScript, is preventing JavaScript from running. 5 4 g + 1 2 h 5 4 g + 1 2 h 317. Divisible by 2,3,5,6,102,3,5,6,10 393. Hence $\dfrac{(2x^{-3}y^4)^3(x^3 + y)^0}{(4xy^{-2})^3} = \dfrac{(2x^{-3}y^4)^3}{(4x y^{-2})^3} $ $=(\dfrac{2x^{-3}y^4}{4x y^{-2}})^3$ $= ((1/2) \dfrac{y^{4+2}}{x^{1+3}})^3 $ $= (1/8) (\dfrac{y^6}{x^4})^3$ $= (1/8) \dfrac{y^{18}}{x^{12}}$ Write as a mathematical inequality:"9 is less than the product of M and N". Hence x + 15% x = $45,000 Solve for x to find x = $39,130 Let x and x + 20 be the speeds of the car from A to B and then from B to A. Solve the following system of equations - x / 2 + y / 3 = 0 x + 6 y = 16 How many real solutions does each quadratic equation shown below have? 305. Access all of the textbook solutions and explanations for Tussy/Gustafson’s Intermediate Algebra (5th Edition). The slope of the given line is equal to 1 / 3. Hypotenuse: AC 2 = 16 + y 2 Side AB: AB 2 = 4 + 4 = 8 Side BC: BC 2 = (y - 2) 2 + 36 We now apply Pythagora's theorem: 16 + y 2 = 8 + (y - 2) 2 + 36 Solve the equation to find y = 8. 5(3x+y)5(3x+y) 15x+y15x+y 79. 1.1 yes yes no yes no 1.2 no yes yes no no 1.3 2 · 2 · 2 · 2 · 5 2 · 2 · 2 · 2 · 5 1.4 2 · 2 · 3 · 5 2 · 2 · 3 · 5 1.13 10 x 2 + 16 x + 17 10 x 2 + 16 x + 17 1.14 12 y 2 + 9 y + 7 12 y 2 + 9 y + 7 1.15 14x2−1314x2−13 12x÷212x÷2 z+13z+13 8x−188x−18 1.16 17y2+1917y2+19 7y7y x+11x+11 11a−1411a−14 1.17 4(p+q)4(p+q) 4p+q4p+q 1.18 2x−82x−8 2(x−8)2(x−8) 1.29 1.30 1.31 8,88,8 −18,−18, −18−18 19,1919,19 −4,−4, −4−4 1.32 8,88,8 −22,−22, −22−22 23,2323,23 3,33,3 1.35 23 60 −63−63 −9−9 1.36 1.43 (9 + (−16)) + 4 ; − 3 (9 + (−16)) + 4 ; − 3 1.44 (−8 + (−12)) + 7 ; − 13 (−8 + (−12)) + 7 ; − 13 1.45 The difference in temperatures was 45 degrees. c) (-2/3) 2 - 4(1)(1/9) = 4/9 - 4/9 = 0 , 1 real solutions. 25n1625n16 25n−163025n−1630 189. −8 − 11 ; − 19 −8 − 11 ; − 19 (−8 − (−3)) + 5 ; 0 (−8 − (−3)) + 5 ; 0 471. a) What was his speed after lunch? The distance after lunch is 3 (x + 20). 405. We first find the slopes of the two lines: 2/M and -1/4 For two lines to be perpendicular, the product of their slopes must be equal to -1. 6(-x/2 + y/3) = 6(0) x + 6y = 16 We then solve the following equivalent system of equations. 230,000,000,000 = 2.3 × 100,000,000,000 = 2.3 × 10 11 Evaluate: 30 - 12÷3×2 = Solution According to order of operations, 12÷3×2 (division and multiplication) is done first from left to right 12÷3×2 = 4 ± 2 = 8 Hence 30 - 12÷3×2 = 30 - 8 = 22 Evaluate: |4 - 8(3 - 12)| - |5 - 11| = Solution According to order of operations, inner brackets first. For what value of the constant K does the equation 2x + K x = 3 have one solution?. What was his salary before the raise? 17 x 2 + 20 x + 16 17 x 2 + 20 x + 16 43. For the system of equations 2x - y = 4 and 6x - 3y = 3 K to have an infinite number of solutions, the two equations must be equivalent. The answers are at the bottom of the page. The total distance is 460 , hence the equation: 2 x + 3 (x + 20) = 460 Solve the above equation to find speed before lunch x = 80 km/hr The speed after lunch is 20 km/hr more than before lunch and is therefore equal to 80 km/hr + 20 km/hr = 100 km/hr. 303. The solution set to the above inequality is given by: K > -1 for which the given equation has two real solutions. −8x−1518−8x−1518 −10k27−10k27 191. For what value of the constant K does the equation K x2 + 2x = 1 have two real solutions? Out of these, the cookies that are categorized as necessary are stored on your browser as they are essential for the working of basic functionalities of the website. Peter wants to get $200,000 for his house. 469. You also have the option to opt-out of these cookies. A set of intermediate algebra problems, with answers, are presented. Solution 9 < M × N Find the slope of the line perpendicular to the line y = (1/3)x - 7 Solution Two lines are perpendicular if the product of their slopes is equal to -1. 28.1528.15 28.14628.146 473. −4−4 −12−12 −39−39 1414 127. Write 230,000,000,000 in scientific notation. 10−(−18);2810−(−18);28 −25−11;−36−25−11;−36 149. Solve for M to find M = 1/2. You've disabled cookies in your web browser. 6×4÷3 = 24÷3 = 8 Hence 11 + sqrt(- 4 + 6×4÷3) = 11 + sqrt(- 4 + 8) = 11 + sqrt(4) = 11 + 2 = 13 Simplify: 12x3 - 3(2x3 + 4x -1) - 5x + 7 Solution First expand the term - 3(2x3 + 4x -1) 12x3 - 3(2x3 + 4x -1) - 5x + 7 = 12x3 - 6 x3 - 12 x + 3 - 5x + 7 Group like terms = 6 x3 - 17 x + 10 Simplify:$(\dfrac{x^4}{x^3})^3$ Solution Use quotient of powers formula $\dfrac{x^m}{x^n}=x^{m-n}$ to simplify $\dfrac{x^4}{x^3}$. − 15 x 3 11 y 2 − 15 x 3 11 y 2 449. We now use "3 coffees and 4 donuts cost $10.05" to write the equation 3x + 4y = 10.05 and use "5 coffees and 7 donuts costs $17.15 " to write the equation 5x + 7y = 17.15 Subtract the terms of the first equation from the terms of the second equation to obtain 2x + 3y = 7.10 Mutliply all terms of the last equation to obtain 4x + 6y = 14.2 4 coffees and 6 donuts cost $14.2. Slope of line L1 = (3 - 3)/(8 + 2) = 0 , horizontal line. The length of a rectangular field is 7/5 its width. b) What will be the agent's commission? Rewrite the given quadratic equation in standard form: Kx 2 + 2x - 1 = 0 Discriminant = 4 - 4(K)(-1) = 4 + 4K For the equation to have two real solutions, the discriminant has to be positive. −3−3 −15−15 −56−56 17 413. Hence the equation (2/M)*(-1/4) = -1. We also use third-party cookies that help us analyze and understand how you use this website. 297. Let x, x + 2, x + 4 and x + 6 be the 4 consecutive integer. a) Find all values of x so that R is not a function. 2.3 × 1011 22 70 18 13 6x3 -17x + 10 x3 (1/27)(x3 / y15) (1/8)(y18 / x12) 9 < M × N -3 y = -3x - 5 -1 x > 4 -4 , 4 -5 -7 , 7 0 undefined undefined A set of intermediate algebra problems related to systems of equations, quadratic equations, ...with answers, are presented. Hence |4 - 8(3 - 12)| - |5 - 11| = |4 - 8*(-9)| - |5 - 11| According to order of operations, multiplication within absolute value signs (which may be considered as brackets when it comes to order of operations) next. Let R be a relation defined by R = {(4,3),(x 2,2),(1,6),(-4,0)}. -3x + 2y = 0 x + 6y = 16 which gives the solution x = 8/5 and y = 12/5 Find the discriminant of each equation. Explain. If m is the slope of the line perpendicular to the given line, then m × (1/3) = -1 Solve for m m = - 3 Write an equation of the line with slope -3 and y-intercept (0 , -5). average speed = 129.2 km/hr Relation R is not a function if x 2 = 4 or x 2 = 1 Hence, R is not a function fo the following values of x: -2, -1, 1 and 2. none −100,−7,−1−100,−7,−1 −100,−7,−83,−1,0.77,314−100,−7,−83,−1,0.77,314 none −100,−7,−83,−1,0.77,314−100,−7,−83,−1,0.77,314 301. 4ab2+3a2b4ab2+3a2b 20xy220xy2 m+15m+15 121x2−9x121x2−9x 47. Add them to check that their sum is 388. Hence the distance from A to B may expressed as 3.5 x and the distance from B to A as 3(x + 20) The average speed = total distance / total time = (3.5 x + 3 (x + 20)) / (3.5 + 3) The distance from A to B is equal to the distance from B to A, hence: 3.5 x = 3(x + 20). 8(y−9)8(y−9) 8y−98y−9 49. (3.4 × 10 11)(5.4 × 10 -3) = (3.4 × 5.4) 10 11 x 10 -3 = 18.36 × 10 8 = 1.836 × 10 9 Solutions and full explanations of intermediate algebra questions in sample 1 are presented. What is the slope of a line perpendicular to the line y = 6? Let us first find the square of the lengths of the sides of triangle A, B and C. For what value of the constant K does the system of equations 2x - y = 4 and 6x - 3y = 3K have an infinite number of solutions? We now substitute x by 120 in the formula for the average speed to obtain. a) (4/5) 2 - 4(1)(1/4) = 16/25 - 1 < 0 , no real solutions.

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