

Algebra II Semester 2 Final Review Packet

1) Simplify: $(-x^2)^4 (x^2)^{-3} = \frac{1}{x^2}$

2) Express the answer in terms of y and z : $y^{2m-3} \cdot y^{2n-2} = z \cdot y^{2m-2}$

3) Draw a graph that is a function and a graph that is not?

4) Solve the system: $\begin{cases} 2x - 3y = 11 \\ 3x + y = -8 \end{cases} \rightarrow x = -5, y = -7$

5) Solve the system: $\begin{cases} 2x + 7y = 6 \\ y = x - 2 \end{cases} \rightarrow x = 2, y = 0$

6) $\frac{5^2 9^2 x^2 x^{-10}}{4^2 x^2 x^{-2}} = \frac{5^2 x^2}{4^2 x^2}$

7) Given $g(x) = 5x^2 - 7$, find $g(-6)$. 6473

8) Simplify: $(4x+1)(3x^2+4x-8) = 12x^3+19x^2-32x-8$

9) Simplify to $a+bi$ form: $\frac{7+2i}{4-3i} = \frac{22}{25} + \frac{38}{25}i$

10) Find the vertex of the parabola: $y = 3x^2 - 6x + 1$ (1, -2)

11) Give an example of an inconsistent system: $\begin{cases} 3x + 4y = 5 \\ -3x - 4y = 10 \end{cases}$

12) Find the equivalent in $a+bi$ form: $\frac{3-i}{2+5i} = \frac{1}{29} - \frac{17}{29}i$

13) Solve the equation: $2x^2 - 9x^2 = -10x^2 \rightarrow x = 0, 3, \frac{5}{2}$

14) What are the x -intercepts of the equation: $x^2 - 4x - 12 = 0$ $x = 6, -2$

15) In lowest terms, the quotient of $\frac{x^2+8x+16}{x+3} \div \frac{x^2-16}{x+3}$ is $\frac{x+4}{x-4}$

16) $\frac{x+5}{x+2y} \cdot \frac{x^2-4y^2}{2x^2+11x+5} = \frac{x-2y}{2x+1}$

17) How many x -intercepts does the parabola with the equation: $y = 3x^2 + 10x + 8$ have? 2

18) Simplify: $\frac{x^2-64}{x^2-6x+8} = \frac{x^2+2x+18}{x-2}$

19) Solve: $\sqrt{x-2} = -10$ no solution 100 is an extraneous solution



Algebra 1 Semester 1 Final Exam Answers

Cheryl V. Cantwell



Algebra 1 Semester 1 Final Exam Answers:

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Community College Mathematics Brian Cafarella, 2022-06-29 This book explores the rich history of community college math with a specific focus on gatekeeper math classes Gatekeeper math classes include courses such as college algebra introduction to statistics and all developmental math classes For community colleges successful completion of these classes is imperative for student retention This book presents a decade by decade analysis of the history of community college mathematics The author employs a mix of conceptual empirical and quantitative research The empirical research stems from interviews with 30 community college faculty members from seven community colleges From the 1970s to the pandemic in the early 2020s the book explores math curricula as well as trends initiatives teaching practices and mandates that have impacted community college math The positives and negatives of such trends initiatives and mandates are presented along with suggestions on how to apply such knowledge going forward The author addresses the key questions How can we build a future model for community college gatekeeper math classes that is both successful and sustainable Additionally how can we learn from the past and the present

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