

14. Solve the system of equations by substitution. $24x + 3y = -18$

$$3(8x + y = -6)$$

$$24x + 3y = -18$$

Same equation, same line

∞ -like number of solutions

15. A plane travels 320 miles in 4 hours with the wind and travels the return trip against the wind in 8 hours. Find the speed of the plane in still air and the speed of the wind.

Let p = plane's speed
 w = wind's speed
 $d = r \cdot t$

$$2(4p + 4w = 320)$$

$$8p + 4w = 320$$

$$2p + w = 80$$

$$16p = 160$$

$$p = 10$$

$$4(10) + 4w = 320$$

$$240 + 4w = 320$$

$$4w = 80$$

$$w = 20$$

plane's speed is 10 mph
wind's speed is 20 mph

16. Simplify: $(2 + 7)(3 - 4 - 8)$

$$= 9 \cdot (-9) = -81$$

$$-81$$

17. $\sqrt{(-2)^2 + (-10)^2}$

$$\sqrt{4 + 100}$$

$$\sqrt{104}$$

$$\sqrt{16 \cdot 6.5}$$

$$\sqrt{4 \cdot 26}$$

$$2\sqrt{26}$$

18. Simplify:

$$\frac{6}{\sqrt{18}} - \frac{\sqrt{6}}{\sqrt{2}}$$

$$= \frac{6}{\sqrt{2 \cdot 9}} - \frac{\sqrt{6}}{\sqrt{2}}$$

$$= \frac{2\sqrt{6}}{3}$$

19. Factor:

$$3x^2 + 20x + 32$$

$$(3x + 8)(x + 4)$$

20. $7x^2 - 10 = 480$

$$7x^2 = 490$$

$$x^2 = 70$$

$$x = \pm \sqrt{70}$$

21. $5m^2 + 120 = 50m$

$$5m^2 - 50m + 120 = 0$$

$$m^2 - 10m + 24 = 0$$

$$(m - 6)(m - 4) = 0$$

$$m = 6 \text{ or } m = 4$$

22. Complete the square then rewrite as a perfect square: $x^2 - 15x + \underline{\hspace{1cm}}$

$$x^2 - 15x + \frac{225}{4}$$

$$(x - \frac{15}{2})^2$$

23. Solve by completing the square:

$$3x^2 + 12x + 56 = -10$$

$$3x^2 + 12x + 66 = 0$$

$$x^2 + 4x + 22 = 0$$

$$x^2 + 4x + 4 = -22 + 4$$

$$(x + 2)^2 = -18$$

$$x + 2 = \pm 3\sqrt{2}$$

$$x = -2 \pm 3\sqrt{2}$$

24. Find the discriminant and state the number and type of solutions:

$$4b^2 - 3b - 12 = -5$$

$$4b^2 - 3b - 7 = 0$$

$$b^2 - \frac{3}{4}b - \frac{7}{4}$$

$$(-3)^2 - 4(4)(-7)$$

$$9 + 112$$

$$121$$

2 real solutions

Algebra Prerequisites Test

Tony Chiu Ming Lam, Kathy Ellen Green

Algebra Prerequisites Test:

Validity Gregory J. Cizek, 2020-02-25 Validity is a clear substantive introduction to the two most fundamental aspects of defensible testing practice understanding test score meaning and justifying test score use Driven by evidence based and consensus grounded measurement theory principles and terminology this book addresses the most common questions of applied validation the quality of test information and the usefulness of test results Concise yet comprehensive this volume s integrated framework is ideal for graduate courses on assessment testing psychometrics and research methods as well as for credentialing organizations licensure and certification entities education agencies and test publishers Study of the Armed Services Procurement Regulations and Departmental Implementation Thereto United States. Congress. House. Committee on Armed Services. Subcommittee for Special Investigations, 1958 Reviews procurement guidelines for Army Navy and AF Includes AF USAF Procurement Service Schools and Training Programs p 387 532 and 537 708 p *Study of the Armed Services Procurement Regulations and Departmental Implementation Thereto* United States. Congress. House. Committee on Armed Services, 1958 **General Register** University of Michigan, 1961 Announcements for the following year included in some vols **Survey Development** Tony Chiu Ming Lam, Kathy Ellen Green, 2023-05-26 Survey Development A Theory Driven Mixed Method Approach provides both an overview of standard methods and tools for developing and validating surveys and a conceptual basis for survey development that advocates establishing and testing of hypotheses pertaining to presumptions and score interpretation and use inferences and mixing quantitative and qualitative methods The book has 14 chapters which are divided into four parts Part A includes six chapters that deal with theory and methodology Part B has five chapters and it gets into the process of constructing the survey using both quantitative and qualitative methods Part C comprises two chapters devoted to assessing the quality or psychometric properties reliability and validity of survey responses Finally the one chapter in Part D is an attempt to present a synopsis of what was covered in the previous chapters in regard to developing a survey with the TDMM framework for developing survey and conducting survey research This provides a full process for survey development intended to yield results that can support valid interpretation and use of scores Including detailed online resources this book is suitable for graduate students who use or are responsible for interpretation of survey research and survey data as well as survey methodologists and practitioners who use surveys in their field **Hearings** United States. Congress. House, 1958 *Study of the Armed Services Procurement Regulation and Departmental Implementation Thereto, Hearings Before the Subcommittee for Special Investigations of ... , 85-2 Under the Authority of H. Res. 67, July 16, 17, and 18, 1958* United States. Congress. House. Committee on Armed Services, 1958 **Current Practices in Quantitative Literacy** Rick Gillman, 2006 Presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry Diagnostic and Placement Tests McGraw-Hill Staff, 2000-11 Four diagnostic and placement tests to help place students in the most

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