

Chapter Test B

For use after Chapter 2

Subtract the matrices.

$$19. \begin{bmatrix} -1 & 7 \\ 11 & 6 \\ -2 & 15 \end{bmatrix} - \begin{bmatrix} -6 & -9 \\ -3 & 4 \\ 0 & 1 \end{bmatrix}$$

Find the values of a , b , c , and d .

$$20. \begin{bmatrix} 5a & 3b \\ c+2 & d \end{bmatrix} = \begin{bmatrix} -50 & 12 \\ -17 & 22 \end{bmatrix} \quad 21. \begin{bmatrix} 2a & 7b \\ 6c & -3d \end{bmatrix} = \begin{bmatrix} 24 & 21 \\ 18 & -15 \end{bmatrix}$$

Find the product or quotient.

$$22. (-6)\left(-\frac{3}{2}\right)(7)(-11) \quad 23. -16.2 \div 6$$

$$24. (-4)\left(\frac{9}{10}\right)(-5)(-3) \quad 25. -48 \div \left(\frac{6}{5}\right)$$

Simplify the expression.

$$26. (-4)(-x)(x^2) \quad 27. (24)(-5x)(-x)$$

$$28. -x(4-x) \quad 29. -4t(t+2)$$

$$30. b^2(4-b^2) \quad 31. (c+3c^2)(-c^2)$$

$$32. 3y - (6y+2)(-y) \quad 33. (-7x+x^2)(-x) + x^2$$

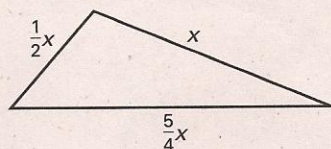
$$34. \frac{3y}{2} \div \frac{3}{7} \quad 35. -\frac{x}{4} \div \frac{6}{x}$$

$$36. \frac{-10x+3}{5} \quad 37. \frac{17x-6}{2}$$

38. You randomly choose an integer from 0 to 9. What are the odds that the integer is 3 or more?

39. You toss three coins. What is the probability P that all are heads?

40. Write and simplify an expression for the perimeter of the figure.



19. Use space at left.

20. _____

21. _____

22. _____

23. _____

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