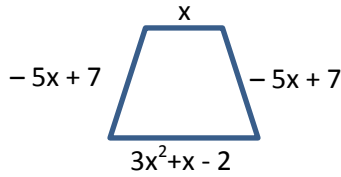


Semester Exam Questions #21-33----CLASSWORK

21. Which expression represents the perimeter of the quadrilateral?



22. In the equation, $\sqrt{k} = 3\sqrt{7}$, what is k ?

23. What is the value of $36^{1/2}$?

24. Solve $p^{7/3} = \sqrt[9]{p^x}$

For questions 25-26, use the equation $ax^2 + bx + c = 0$

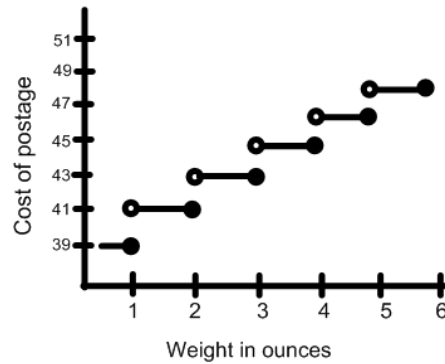
25. $b^2 - 4ac$ is called the _____
26. When $b^2 - 4ac = 0$ then _____
27. Let $x^2 - y^2 = 50$ and $x - y = 6$. What is the value of $x + y$?

28. Let the expression $x^2 + px + c$ be a perfect square trinomial. What is equivalent to c ?

29. The maximum height reached by a bouncing basketball is given by $h(x) = 9(0.75)^x$ where h is measured in feet and x is the bounce number. Describe the domain of this function and what it means when $x=0$.

For questions 30-32 use this scenario.

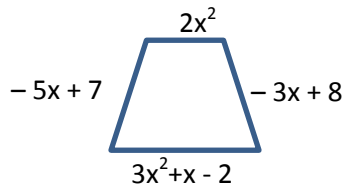
The Cost of Postage for a Letter



30. True or false: A letter weighing less than an ounce costs 39 cents.
31. True or false: A letter weighing exactly 4 ounces costs 47 cents.
32. True or false: If two ounces are added to the weight of a letter, the cost increases by 2 cents.
33. The number of rabbits on a farm is initially measured to be B . The population grows by 3% per month. Which expression represents the number of rabbits after m months?

Semester Exam Questions #22-33----HOMEWORK

21. Which expression represents the perimeter of the quadrilateral?



29. The maximum height reached by a ball bounced from an initial height of 9 feet is given by $b(x) = 9(0.79)^x$ where b is measured in feet and x is the number of times it bounces. Describe the domain of this function and what it means when $x=0$

22. In the equation, $\sqrt{k} = 8\sqrt{3}$, what is k ?

23. What is the value of $144^{1/2}$?

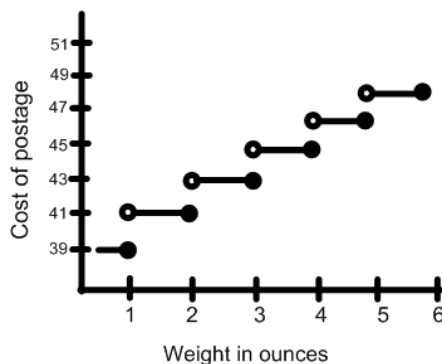
24. Solve $p^{2/3} = \sqrt[12]{p^x}$

For questions 25-26, use the equation $ax^2 + bx + c = 0$

25. c is called the _____
26. When $b^2 - 4ac > 0$ then _____
27. Let $x^2 - y^2 = 50$ and $x - y = 5$. What is the value of $x + y$?

For questions 30-32 use this scenario.

The Cost of Postage for a Letter



30. True or false: A letter weighing less than an ounce costs 41 cents.
31. True or false: A letter weighing exactly 3 ounces costs 43 cents.
32. True or false: If an ounce is added to the weight of a letter, the cost increases by 2 cents.
33. The number of cellphones is initially measured to be C . The amount grows by 12% per year. Which expression represents the number of cellphones after t years?

28. Let the expression $x^2 + hx + c$ be a perfect trinomial square. Which is equivalent to c ?