\*1. Disregard

2. Simplify the following expression:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E1%23%3Fal%7B%3D%2B%3Fofew%3D6%23w%23%28%23z%3Fqjdkw%3D%2A%3F%2Cal%7B%3D%23%2E%235%23%3Fal%7B%3D%2B%3Fofew%3D%2E6%23z%23%2E%235%23w%3Fqjdkw%3D%2A%3F%2Cal%7B%3D

3.

The surface area http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?Pof a right prism is given by

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?P%23%3E%231%23A%23%28%23S%23k,

where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?Ais the area of the base, http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?Sis the perimeter of the base, and http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?kis the height of the prism.

Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?S.

4. Solve the following equation for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%7B .

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?1%23%7B%23%28%2323%3E%2E7%23%3Fal%7B%3D%2B%3Fofew%3D%7B%23%2E%232%3Fqjdkw%3D%2A%3F%2Cal%7B%3D

Simplify your answer as much as possible.

5. Graph the line.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?z%23%3E%23%3Fal%7B%3D1%3Flufq%3D0%3F%2Cal%7B%3D%7B%23%28%230

6. Disregard

7. Find the values of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%7Band http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?zthat solve the following system of equations:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E7%7B%23%28%230z%23%3E%23%2E2%3B  
http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3B%7B%23%28%236z%23%3E%2327 .

8. Express the following product of powers of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?zas a single power of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?z:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%0E%09z%3Fpvs%3D0%3F%2Cpvs%3D%0E%09%25glw8%23z%3Fpvs%3D0%3F%2Cpvs%3D%0E%09%25glw8%23z%3Fpvs%3D%3F%2Cpvs%3D%0E%09 .

9. Simplify the following:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3Da%3Fpvs%3D7%3F%2Cpvs%3D%23b%3Fpvs%3D0%3F%2Cpvs%3D%3Flufq%3Da%3Fpvs%3D1%3F%2Cpvs%3D%23b%3Fpvs%3D5%3F%2Cpvs%3D%3F%2Cal%7B%3D

10. Write without parentheses:

 .

11. Rewrite the following without an exponent:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%2B%3Fofew%3D1%3Flufq%3D6%3Fqjdkw%3D%2A%3F%2Cal%7B%3D%3Fpvs%3D%2E2%3F%2Cpvs%3D .

12. Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2By%3Fpvs%3D%2E1%3F%2Cpvs%3D%2A%3Fpvs%3D4%3F%2Cpvs%3D

Write your answer without using negative exponents.

\*13. Disregard

14. Simplify the following:

15. Perform the following multiplications.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%0E%097%23%7B%23%25glw%230%23%7B%3Fpvs%3D4%3F%2Cpvs%3Dw%3Fpvs%3D%3A%3F%2Cpvs%3D%23%25glw%230%23w%3Fpvs%3D%3A%3F%2Cpvs%3D%0E%09

Simplify your answer as much as possible.

16. Write the product below in simplest form without parentheses:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2Bz%23%28%230%2A%23%2Bz%23%2E%236%2A.

17. Rewrite without parentheses and simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2B7w%23%28%236%2A%3Fpvs%3D1%3F%2Cpvs%3D

18. Multiply:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%09%2B1w%23%2E%235z%23%2E%231%2A%23%2B5w%23%28%235z%23%2E%234%2A%09 .

Simplify your answer as much as possible.

19. Factor

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?y%3Fpvs%3D1%3F%2Cpvs%3D%23%28%23%3A%23y%23%2E%2305 .

20. Factor.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?0%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%28%23%7B%23%2E%2323

21. Factor:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?16%23t%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%237

22. Factor:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?6%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%234%23%7B%23z%23%2E%235%23z%3Fpvs%3D1%3F%2Cpvs%3D

23. Factor:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%09%2E4%7B%23%2E%234y%23%28%23v%7B%23%28%23yv%09 .

24. Multiply. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D0%23t%23y%3Flufq%3D1%23t%3F%2Cal%7B%3D%23%25glw8%23%3Fal%7B%3D7%23t%3Flufq%3D%3A%23y%3F%2Cal%7B%3D

25. Express the following compound fraction in lowest terms:

.

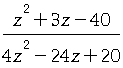
26. Subtract. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%23%3Fal%7B%3D5%7B%23%2E%230v%3Flufq%3D%3A%7B%3F%2Cal%7B%3D%23%2E%23%3Fal%7B%3D7%7B%23%28%237v%3Flufq%3D%3A%7B%3F%2Cal%7B%3D%09

27. Add and simplify:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E%25wkjmps8%3Fal%7B%3D5%3Flufq%3D%7B%23%2E%232%3F%2Cal%7B%3D%23%28%23%3Fal%7B%3D1%23%2E%230%23%7B%3Flufq%3D%7B%3F%2Cal%7B%3D

28. Reduce the following expression to lowest terms:



29. Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?t:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E%23%3B%23%3E%23%3Fal%7B%3D1%3Flufq%3Dt%3F%2Cal%7B%3D .

Simplify your answer as much as possible.

30.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  | | --- | | Find all values of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?ysatisfying the equation  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?7%23%28%23%3Fal%7B%3D0%3Flufq%3Dy%23%2E%237%3F%2Cal%7B%3D%23%3E%23%3Fal%7B%3D4%3Flufq%3Dy%23%28%232%3F%2Cal%7B%3D.  (If there is more than one solution, separate them with commas.) | | |  |  | | --- | --- | | |  | | --- | |  | | |

|  |
| --- |
|  |

31. Solve the following proportion for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?u .

|  |  |  |
| --- | --- | --- |
| http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D24%3Flufq%3D20%3F%2Cal%7B%3D | http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3E | http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D6%3Flufq%3Du%3F%2Cal%7B%3D |

Round your answer to the nearest tenth.

32. Heather drove http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?132miles using http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?23gallons of gas. At this rate, how many miles would she drive using http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?22gallons of gas?

33. Rewrite the following in simplified radical form.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D17%3F%2Cprqw%3D

34.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  | | --- | | Simplify:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D%3B2%23z%3Fpvs%3D7%3F%2Cpvs%3D%3F%2Cprqw%3D  Assume that the variable http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?zrepresents a positive real number. | | |  |  | | --- | --- | | |  | | --- | |  | | |

|  |
| --- |
|  |

35. Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?7%3Fprqw%3D2%3B%3F%2Cprqw%3D%25ps8%28%25wkjmps8%3Fprqw%3D%3B%3F%2Cprqw%3D

36. Write without exponents:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?01%3Fpvs%3D%3Fal%7B%3D7%3Flufq%3D6%3F%2Cal%7B%3D%3F%2Cpvs%3D .

37. Rewrite the following in simplified radical form.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D7%3Bw%3Fpvs%3D23%3F%2Cpvs%3D%3F%2Cprqw%3D

Assume that all variables represent positive real numbers.

38. Simplify the following expression as much as possible:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?y%3Fpvs%3D%3F%2Cpvs%3D%3Fprqw%3D5yv%3Fpvs%3D1%3F%2Cpvs%3D%3F%2Cprqw%3D%23%2E%23v%3Fprqw%3D67y%3Fpvs%3D0%3F%2Cpvs%3D%3F%2Cprqw%3D

Assume that all variables represent positive real numbers.

39. Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D1%23z%3Fpvs%3D1%3F%2Cpvs%3D%23y%3Fpvs%3D0%3F%2Cpvs%3D%3F%2Cprqw%3D%23%3Fprqw%3D%3B%23z%3Fpvs%3D1%3F%2Cpvs%3D%23y%3Fpvs%3D5%3F%2Cpvs%3D%3F%2Cprqw%3D

Assume that all variables represent positive real numbers.

40. Rationalize the denominator and simplify:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3Fprqw%3D06%3F%2Cprqw%3D%3Flufq%3D%3Fprqw%3D12%3F%2Cprqw%3D%3F%2Cal%7B%3D .

41. Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3Dv%23%28%234%3F%2Cprqw%3D%23%3E%23%3A ,

where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?vis a real number.  
(If there is more than one solution, separate them with commas.)

42. Solve the following equation for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?y:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%09%3Fprqw%3D%3By%23%28%232%3F%2Cprqw%3D%23%3E%23%3Fprqw%3D4y%23%28%2322%3F%2Cprqw%3D%09,

where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?yis a real number.  
(If there is more than one solution, separate them with commas.)

\*43. Disregard

44. Compute the following:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3Fqllw%3D0%3Fle%3D%3B%3F%2Cqllw%3D%3F%2Cal%7B%3D.

45. Write the following expression in simplified radical form.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3Fqllw%3D0%3Fle%3D67%3F%2Cqllw%3D%3F%2Cal%7B%3D

46. Find the roots of the quadratic equation:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%230v%23%2E%2323%23%3E%233 .

(If there is more than one root, separate them with commas.)

47. Find the roots of the quadratic equation:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%230v%23%2E%2323%23%3E%233 .

(If there is more than one root, separate them with commas.)

48. Solve http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2By%23%2E%234%2A%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%2346%23%3E%233where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?yis a real number.   
Simplify your answer as much as possible.

(If there is more than one solution, separate them with commas.)

49. Solve the following equation for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%7Bby using the quadratic formula:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?6%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%235%7B%23%2E%231%23%3E%233 .

(If there is more than one solution, separate them with commas.)

50. Disregard