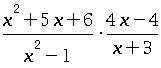
#1. Multiply. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3Dy%3Flufq%3D26%23v%23y%3F%2Cal%7B%3D%23%25glw8%23%3Fal%7B%3D6%23v%3Flufq%3D5%23y%3F%2Cal%7B%3D

#2. Multiply and simplify:



#3. Divide. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D6%23%7B%3Flufq%3D21%23y%3F%2Cal%7B%3D%23%25gju8%23%3Fal%7B%3D0%23%7B%3Flufq%3D7%23%7B%23y%3F%2Cal%7B%3D

#4. Express the following compound fraction in lowest terms:

4  .

28 9

4 3

3 r s

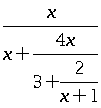
2

7 pq

6 r 3

s

#5. Simplify as much as possible



#6. Add. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E%23%3Fal%7B%3D%3Bw%23%2E%231%7B%3Flufq%3D%3Aw%3F%2Cal%7B%3D%23%28%23%3Fal%7B%3Dw%23%28%23%3A%7B%3Flufq%3D%3Aw%3F%2Cal%7B%3D%09

#7.Express as a single fraction in lowest terms:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%25ps8%09%3Fal%7B%3D1w%25wkjmps8%28%25wkjmps80y%3Flufq%3D5w%3F%2Cal%7B%3D%09%25ps8%28%25ps8%09%3Fal%7B%3D1w%25wkjmps8%2E%25wkjmps84y%3Flufq%3D7w%3F%2Cal%7B%3D%09%25wkjmps8%23%2E%25wkjmps80

#8. Subtract and simplify:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D0%3Flufq%3D%7B%23%28%232%3F%2Cal%7B%3D%23%2E%23%3Fal%7B%3D%7B%23%28%231%3Flufq%3D%7B%3F%2Cal%7B%3D

.

9. Add and simplify:

3 2

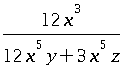
------------------------- + ----------------------------

5 x 2 - 33 x + 54 5 x 2  - 38 x + 72

10. Reduce the following expression to lowest terms:



11. Reduce the following rational expression to its lowest terms:



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

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%23%3Fal%7B%3D%3A%3Flufq%3Dv%3F%2Cal%7B%3D%23%3E%23%2E%235 .

Simplify your answer as much as possible.

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

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D2%3Flufq%3Dv%23%2E%231%3F%2Cal%7B%3D%23%3E%23%2E7 .

Simplify your answer as much as possible.

14. Find all values of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?vsatisfying the equation

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3A%23%28%23%3Fal%7B%3D7%3Flufq%3Dv%23%2E%231%3F%2Cal%7B%3D%23%3E%23%2E%3Fal%7B%3D1%3Flufq%3Dv%23%2E%232%3F%2Cal%7B%3D.

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

15. Find all values of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?ywhich satisfy the equation

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3Dy%23%2E%230%3Flufq%3Dy%23%28%231%3F%2Cal%7B%3D%23%28%232%23%3E%23%3Fal%7B%3Dy%23%2E%231%3Flufq%3Dy%23%28%237%3F%2Cal%7B%3D.

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

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

|  |  |  |
| --- | --- | --- |
| http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D7%3Flufq%3D%7B%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%3D20%3Flufq%3D4%3F%2Cal%7B%3D |

Round your answer to the nearest tenth.

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

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%2E12%3Flufq%3Dv%3F%2Cal%7B%3D%3E%3Fal%7B%3D%2E2%3B%3Flufq%3Dv%23%28%232%3F%2Cal%7B%3D

18. There is a sales tax of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2725on an item that costs http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%27257before tax. A second item costs http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%27260%2D46before tax. What is the sales tax on the second item?

19. A swimming pool holds http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?7%3B3%2F333liters of water. The pool has two drainage pipes. When the pool is completely full, the first pipe alone can empty it in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?253minutes, and the second pipe alone can empty it in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?173minutes. When both pipes are draining together, how long does it take them to empty the pool?

20. If the expression:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%09%3Fal%7B%3D4w%23%2E%23%3A%3Flufq%3D4w%23%2E%236%3F%2Cal%7B%3D%09

is to make sense, the values that http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?wcan take must be restricted. State the restriction on http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?w.