Evaluate.

((-1)2 - 3)3 + 5 · (-5)

Simplify the following expression:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E1%23%3Fal%7B%3D%2B%3Fofew%3Dt%23%28%23v%3Fqjdkw%3D%2A%3F%2Cal%7B%3D%23%2E%230%23%3Fal%7B%3D%2B%3Fofew%3D%2E7%23v%23%2E%235%23t%3Fqjdkw%3D%2A%3F%2Cal%7B%3D

When converting from Fahrenheit degrees http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?Eto Celsius degrees http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%40, a well known formula is used:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%40%23%3E%23%3Fal%7B%3D6%3Flufq%3D%3A%3F%2Cal%7B%3D%23%2BE%23%2E%2301%2A. Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?E.

Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%0E%09z%3Fpvs%3D%3F%2Cpvs%3D%0E%09%25glw8%23z%3Fpvs%3D6%3F%2Cpvs%3D%0E%09%25glw8%23z%3Fpvs%3D0%3F%2Cpvs%3D%0E%09

Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3Dy%3Fpvs%3D5%3F%2Cpvs%3D%23%7B%3Fpvs%3D0%3F%2Cpvs%3D%3Flufq%3Dy%3Fpvs%3D6%3F%2Cpvs%3D%23%7B%3Fpvs%3D7%3F%2Cpvs%3D%3F%2Cal%7B%3D

Simplify.



Write your answer without parentheses.

Rewrite the following without an exponent.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%2B%3Fofew%3D%3B%3Flufq%3D4%3Fqjdkw%3D%2A%3F%2Cal%7B%3D%3Fpvs%3D%2E2%3F%2Cpvs%3D

Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%2B%3Fofew%3Dv%3Fpvs%3D%2E6%3F%2Cpvs%3D%3Fqjdkw%3D%2A%3F%2Cal%7B%3D%3Fpvs%3D7%3F%2Cpvs%3D

Write your answer without using negative exponents.

Simplify.

3w2w-2 · 4v-9v · 2x-8x8

Use only positive exponents in your answer.

Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%09%2B%2E6v%3Fpvs%3D1%3F%2Cpvs%3D%23%28%231v%23%28%232%2A%09%25wkjmps8%28%25wkjmps8%09%2B%2E4v%23%28%23%3B%2A%09%25wkjmps8%2E%25wkjmps8%09%2B1v%3Fpvs%3D1%3F%2Cpvs%3D%23%28%237v%23%2E%232%2A%09

Multiply.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%0E%097%23t%3Fpvs%3D7%3F%2Cpvs%3D%23%25glw%230%23u%23%25glw%237%23u%3Fpvs%3D%3A%3F%2Cpvs%3Dt%3Fpvs%3D1%3F%2Cpvs%3D%0E%09

Simplify your answer as much as possible.

Multiply.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2B%7B%23%2E%230%2A%23%2B%7B%23%28%234%2A

Simplify your answer.

Rewrite without parentheses and simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2B0v%23%2E%231%2A%3Fpvs%3D1%3F%2Cpvs%3D

Multiply.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2B%230v%23%2E%236%2A%2B%235v%23%28%230t%23%28%232%2A

Simplify your answer.

Factor

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?z%3Fpvs%3D1%3F%2Cpvs%3D%23%28%237%23z%23%2E%2321 .

Factor.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?1%23t%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%2324%23t%23%28%2306

Factor.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?16%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%23y%3Fpvs%3D1%3F%2Cpvs%3D

Factor:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?23%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%28%2322%23%7B%23z%23%2E%235%23z%3Fpvs%3D1%3F%2Cpvs%3D

Factor:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%095z%23%28%235t%23%28%23ut%23%28%23zu%09 .

Multiply. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3A%23t%23z%3Flufq%3Dz%3F%2Cal%7B%3D%23%25glw8%23%3Fal%7B%3D7%23z%3Flufq%3D26%23t%3F%2Cal%7B%3D

Simplify.

21n4/3x4y2  / 7mn2/9x3y

Subtract. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%23%3Fal%7B%3D7z%23%28%23%3Bt%3Flufq%3D5z%3F%2Cal%7B%3D%23%2E%23%3Fal%7B%3D0z%23%28%230t%3Flufq%3D5z%3F%2Cal%7B%3D%09

Add and simplify:

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E%25wkjmps8%3Fal%7B%3D7%3Flufq%3D%7B%23%2E%232%3F%2Cal%7B%3D%23%28%23%3Fal%7B%3D0%23%2E%23%7B%3Flufq%3D%7B%3F%2Cal%7B%3D

Simplify.



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

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%23%3Fal%7B%3D1%3Flufq%3Du%3F%2Cal%7B%3D%23%3E%23%2E%235 .

Simplify your answer as much as possible.

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

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E%3Fal%7B%3D0%3Flufq%3Dt%23%28%232%3F%2Cal%7B%3D%23%3E%23%2E7%23%28%23%3Fal%7B%3D6%3Flufq%3Dt%23%28%231%3F%2Cal%7B%3D

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%3Dv%3Flufq%3D21%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%3D4%3Flufq%3D20%3F%2Cal%7B%3D |

Round your answer to the nearest tenth.

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | Milan runs http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?7miles in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?03minutes. At the same rate, how many miles would he run in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?2%3Bminutes?  Rewrite the following in simplified radical form.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D21u%3Fpvs%3D7%3F%2Cpvs%3D%3F%2Cprqw%3D  Assume that all variables represent positive real numbers.  Simplify as much as possible.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v%3Fprqw%3D0t%3Fpvs%3D6%3F%2Cpvs%3D%3F%2Cprqw%3D%23%2E%23t%3Fpvs%3D1%3F%2Cpvs%3D%3Fprqw%3D7%3Btv%3Fpvs%3D1%3F%2Cpvs%3D%3F%2Cprqw%3D  Assume that all variables represent positive real numbers.  Simplify.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D6%23%7B%3Fpvs%3D6%3F%2Cpvs%3D%23v%3Fpvs%3D0%3F%2Cpvs%3D%3F%2Cprqw%3D%23%3Fprqw%3D13%23%7B%23v%3Fpvs%3D0%3F%2Cpvs%3D%3F%2Cprqw%3D  Assume that all variables represent positive real numbers.  Rationalize the denominator and simplify.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3Fprqw%3D5%3F%2Cprqw%3D%3Flufq%3D%3Fprqw%3D23%3F%2Cprqw%3D%3F%2Cal%7B%3D  Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?z , where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?zis a real number.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3Dz%23%28%2314%3F%2Cprqw%3D%23%3E%23%3A  Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v , where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?vis a real number.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D6v%23%28%237%3F%2Cprqw%3D%23%3E%23%3Fprqw%3D4v%23%28%232%3F%2Cprqw%3D  Find the value of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3Fqllw%3D0%3Fle%3D57%3F%2Cqllw%3D%3F%2Cal%7B%3D.  Write the following in simplified radical form.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D%3Fqllw%3D0%3Fle%3D21%3B%3F%2Cqllw%3D%3F%2Cal%7B%3D  Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v .  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?v%3Fpvs%3D1%3F%2Cpvs%3D%23%28%237v%23%28%230%23%3E%233  Solve the equation  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%0E%091t%3Fpvs%3D1%3F%2Cpvs%3D%23%28%2321t%23%28%2316%0E%09%3E%23%0E%09%2Bt%23%28%234%2A%3Fpvs%3D1%3F%2Cpvs%3D%0E%09  for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?t . | | |  | | --- | |  | |

Solve http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2Bt%23%28%2323%2A%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%2373%23%3E%233 , where http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?tis a real number.   
Simplify your answer as much as possible.

Use the quadratic formula to solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%7B.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?1%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%234%7B%23%28%232%23%3E%233

Write in simplified radical form by rationalizing the denominator.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fal%7B%3D1%23%3Fprqw%3D6%3F%2Cprqw%3D%23%28%230%3Flufq%3D0%23%3Fprqw%3D6%3F%2Cprqw%3D%23%28%234%3F%2Cal%7B%3D

Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%3Fprqw%3D1%23t%3Fpvs%3D1%3F%2Cpvs%3D%23u%3Fpvs%3D7%3F%2Cpvs%3D%3F%2Cprqw%3D%23%3Fprqw%3D23%23t%3Fpvs%3D1%3F%2Cpvs%3D%23u%3F%2Cprqw%3D

Assume that all variables represent positive real numbers.

Multiply.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2B6%23%28%230%3Fprqw%3D5%3F%2Cprqw%3D%2A%23%2B2%23%2E%236%3Fprqw%3D0%3F%2Cprqw%3D%2A

Simplify your answer as much as possible.

Simplify as much as possible.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?5z%3Fpvs%3D1%3F%2Cpvs%3D%3Fprqw%3D7%3Bz%7B%3Fpvs%3D1%3F%2Cpvs%3D%3F%2Cprqw%3D%23%2E%23%7B%3Fprqw%3D21z%3Fpvs%3D6%3F%2Cpvs%3D%3F%2Cprqw%3D

Assume that all variables represent positive real numbers.

Simplify.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%2E%3Fprqw%3D21%3F%2Cprqw%3D%25ps8%2E%25ps80%3Fprqw%3D46%3F%2Cprqw%3D

Use the quadratic formula to solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%7B.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?1%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%28%23%3A%7B%23%28%236%23%3E%233

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

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?z%3Fpvs%3D1%3F%2Cpvs%3D%23%28%237z%23%2E%2312%23%3E%233

Simplify.



Write your answer without parentheses.

Rewrite the following without an exponent.

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