

Algorithms



GCF and LCM

Graphs of Parabolas

Aha!

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Quadratic Factoring GCF Equations

Quadratic Equations for 100.



What is the sum of the two roots of the equation $x^2 - bx + c = 0$?



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Quadratic Equations for 200.



What is the product of the two roots of the equation $x^2 - bx + c = 0$?



c



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None of the above

Quadratic Equations for 300.

How many real roots does $ax^2 - bx + c = 0$ have if



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the discriminant, $b^2 - 4ac$, equals zero?

None of the above

Quadratic Equations for 400.



What are the real roots of $x^2 - 2x + 4 = 0$?

- 2, -2
- -2
- None of the above



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Factoring for 100.



Decide which of the reasons below best explains why $(3 \cdot 4 \cdot 3 \cdot 5)^2$ is not the prime factorization of 1800



7 is missing

11 is missing

this product is not equal to 1800

4 is not prime

the last two reasons



Class 🌲

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Factoring for 200.



Which of the following is not a factor of 24?



16

24

8

12



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Factoring for 300.



Which of the following is not a factor of 1260?



126

16

30

15



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Factoring for 400.



What is the prime factorization of 540?

- $2 \cdot 3^3 \cdot 5$
- $2^2 \cdot 3^3 \cdot 5$
- $2^2 \cdot 3^2 \cdot 5$
- $2 \cdot 3^2 \cdot 5^2$
- $2^2 \cdot 3^2 \cdot 5^2$



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GCF and LCM for 100.



What is the Greatest Common Factor of 24 and 64?



192

12

8 64

None of the above



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GCF and LCM for 200.



What is the Least Common Multiple of 8 and 12?



4

48

8

12

24

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GCF and LCM for 300.

What is the Greatest Common Factor of 128 and 432?



Ger and Ectivition 30



27

128 8

16

None of the above



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GCF and LCM for 400.



What is the Least Common Multiple of 48 and 64?



48 96

16

192

None of the above



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Graphs of Parabolas for 100.



What does the graph of $-x^2 + 2x + 3$ look like?



Open upwards, y-intercept at y=3

Open upwards, y-intercept at y=2

Open downwards, y-intercept at y=1

Open downwards, y-intercept at y=2

Open downwards, y-intercept at y=3



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What is the vertex of $y = (x+2)^2 - 1$?



(2,1)

(2,-1)

(1,2)

(-2,-1)

(-2,1)

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Graphs of Parabolas for 300.

 $f(x) = x^2$. What is the equation whose graph is shifted 1 unit to the left of f(x)?

$$y = x^{2} - 1$$
$$y = x^{2} - 2x$$
$$y = x^{2} + 2x + 1$$

 $y = x^2 - 2x + 1$

$$y = x^2 + 2x - 1$$

Graphs of Parabolas for 400.

$$f(x) = -x^2 + 1$$
, $g(x) = 2x^2 + x - 1$. What does the graph of $(f+g)(x)$ look like?

Open upwards, y-intercept at y=1

Open upwards, y-intercept at y = -1

Open upwards, y-intercept at y=0

Open downwards, y-intercept at y=1

Open downwards, y-intercept at y = -1

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$$x^3(x+1)(x-1)$$

$$x^4 \cdot x$$

$$x^4 + 1$$

$$x^4 + x$$

$$x \cdot x \cdot x \cdot x \cdot x$$















Aha! for 200.



What is the Least Common Multiple of x and 2x?



2x

x

3x

1

None of the above



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Aha! for 300.

What is the Greatest Common Factor of x and 2x?





x

2x

1

3x

 $2x^2$



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Aha! for 400.



What is the Greatest Common Factor of two prime numbers, p and q?





p











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