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Mark for Review

s = 40 + 2t

The equation gives the speed s, in miles per hour, of a certain car t seconds after it began to accelerate. What is the speed, in miles per hour, of the car 4 seconds after it began to accelerate?

A 40

B 42

C 44

D 48

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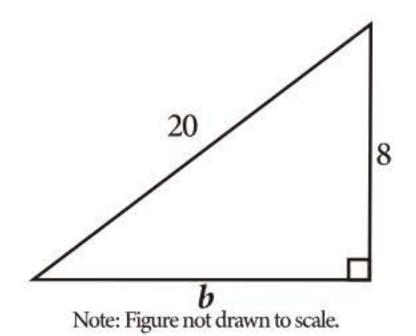
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ABC Mark for Review

Which equation shows the relationship between the side lengths of the given triangle?

 \oplus –



- A 8b=20
- **B** 8+b=20
- \bigcirc 8²+b²=20²
- **D** $8^2-b^2=20^2$

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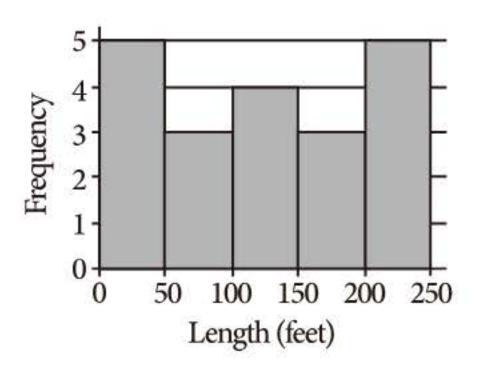
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Mark for Review

ABC

The histogram shows the distribution of 20 lengths, in feet, in a data set. The first bar represents the lengths that are less than 50 feet, the second bar represents the lengths that are at least 50 feet but less than 100 feet, and so on. Which of the following could be the maximum length, in feet, in this data set?

-



A 69

B 119

C 169

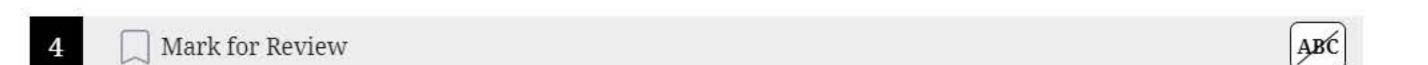
D 219

Question 3 of 22 ▲

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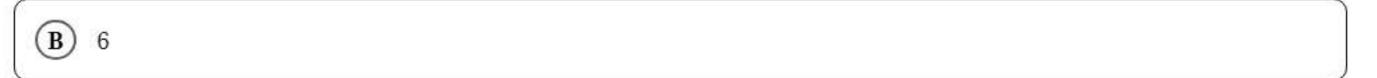
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The function f is defined by f(x) = 8(2x + 2). For what value of x does f(x) = 80?





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Student-produced response directions

- If you find more than one correct answer, enter only one answer.
- You can enter up to 5 characters for a **positive** answer and up to 6 characters (including the negative sign) for a **negative** answer.
- If your answer is a **fraction** that doesn't fit in the provided space, enter the decimal equivalent.
- If your answer is a decimal that doesn't fit in the provided space, enter it by truncating or rounding at the fourth digit.
- If your answer is a **mixed number** (such as $3\frac{1}{2}$), enter it as an improper fraction (7/2) or its decimal equivalent (3.5).
- · Don't enter symbols such as a percent sign, comma, or dollar sign.

Examples

Answer	AnswerAcceptable ways to enter answer	Unacceptable: will NOT receive credit
	3.5	24/2
3.5	3.50	31/2
	7/2	3 1/2
	2/3	(2) (22)

7x+28=7x+k

In the given equation, k is a constant. The equation has infinitely many solutions. What is the value of *k*?

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- · Don't enter symbols such as a percent sign, comma, or dollar sign.

Examples

Answer	AnswerAcceptable ways to enter answer	Unacceptable: will NOT receive credit
	3.5	24/2
3.5	3.50	31/2
	7/2	3 1/2
	2/3	2 22

-	SHIPS	100	- 42	7.5	100	250	777	 57.5	(0.010)	20	350	<u> </u>	100	
3	300			- 18		120			- 70%	- 10		- 4	3 37	

A line segment that has a length of 113 centimeters (cm) is divided into three parts. One part is 47cm long. The other two parts have lengths that are equal to each other. What is the length, in cm, of one of the other two parts of equal length?

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Directions ∨

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Mark for Review

The price of an object increased from \$16 to \$80. What was the percent increase in the price of the object?

A 20%

B 64%

(C) 80%

D 400%

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100%

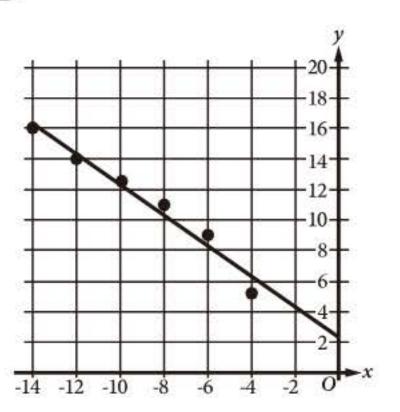
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Mark for Review



The scatterplot shows the relationship between two variables, x and y. A line of best fit is also shown. Which of the following equations best represents the line of best fit shown?

+0



- A y=x-16.3
- **B** y=-x+16.3
- © y=x-2.3
- **D** y=-x+2.3

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Examples

Answer	AnswerAcceptable ways to enter answer	Unacceptable: will NOT receive credit
	3.5	31/2
3.5	3.50	(9.47.4)
	7/2	3 1/2
	2/3	V2 22

The expression $7x^6+9x^6-8x^6$ is equivalent to bx^6 , where b is a constant. What is the value of b?

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Directions ∨

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Mark for Review



At what point (x, y) do the graphs of the equations y=5x+8 and y=6x-2 intersect in the xy-plane?

- (5, 6)
- **B** (6, 5)
- **(**10, 58)
- **D** (58, 10)

Question 10 of 22 A



100%

Directions >

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Mark for Review

A rectangle has a length that is 72 times its width. The function y=(72w)(w) represents this situation, where y is the area, in square feet, of the rectangle and y>0. Which of the following is the best interpretation of 72w in this context?

- The length of the rectangle, in feet
- The area of the rectangle, in square feet
- The difference between the length and the width of the rectangle, in feet
- The width of the rectangle, in feet

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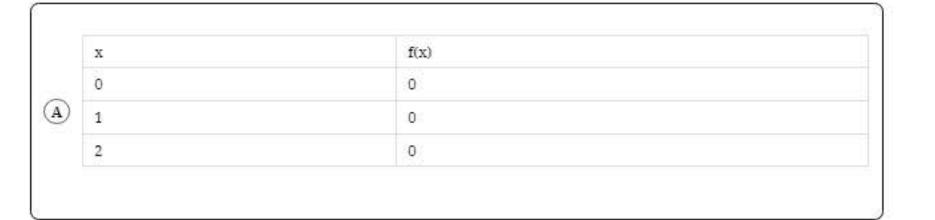
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12

Mark for Review

f(x)=29

For the given linear function f, which table gives three values of x and their corresponding values of f(x)?



	х	f(x)
_	0	29
B)	1	29
	2	29

	X	f(x)
_	0	0
c)	1	29
	2	58

	x	f(x)	
_	0	29	
D	1	0	
	2	-29	

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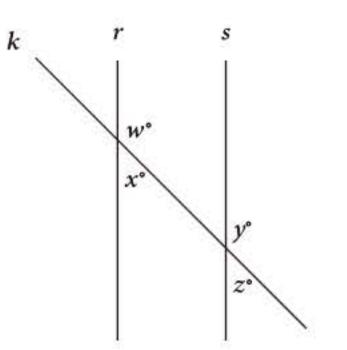
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ABC Mark for Review

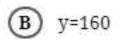
In the figure shown, line k intersects lines r and s. If w=160, which additional piece of information is sufficient to prove that lines r and s are parallel?

+



Note: Figure not drawn to scale.

-	
(A)	x=20



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$$x^2-4x+y^2-8y-80=0$$

In the xy-plane, the graph of the given equation is a circle. If this circle is inscribed in a square, what is the perimeter of the square?

A 20

B 40

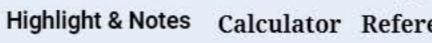
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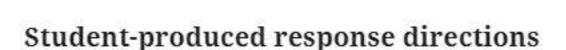
D 320

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- · Don't enter symbols such as a percent sign, comma, or dollar sign.

Examples

Answer	AnswerAcceptable ways to enter answer	Unacceptable: will NOT receive credit
2.5	3.5	31/2
3.5	3.50 7/2	3 1/2
	2/3	6 66

A real estate company offers a series of three webinars, 1,250 people attended the first webinar. 46% of the people who attended the first webinar attended the second webinar, and 32% of the people who attended the first and second webinars attended the third webinar. How many people attended all three webinars?

Hide

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ABC Mark for Review

 $f(x) = 24(2)^{\frac{x}{6}}$

Which table gives four values of x and their corresponding values of f(x) for the given exponential function?

X	-6	0	6	12
f(x)	12	0	48	96

X	-6	0	6	12
f(x)	12	24	48	96

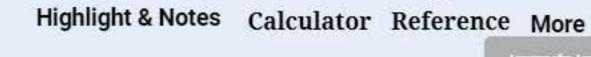
X	-6	0	6	12
f(x)	-12	24	48	96

	х	-6	0	6	12	
D	f(x)	12	24	48	72	

100% **(a)**

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A circle in the xy-plane has its center at (18, 16) and has a radius of 6k. Which equation represents this circle?

A
$$(x-18)^2 + (y-16)^2 = 36k$$

B
$$(x-18)^2 + (y-16)^2 = 36k^2$$

©
$$(x-18)^2 + (y-16)^2 = 6k$$

①
$$(x-18)^2 + (y-16)^2 = 6k^2$$

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Directions >

Student-produced response directions

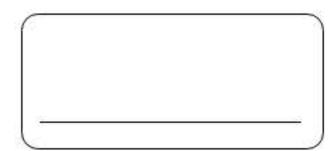
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Examples

Answer	AnswerAcceptable ways to enter answer	Unacceptable: will NOT receive credit
	3.5	24/2
3.5	3.50	31/2
	7/2	3 1/2
	2/3	2 22

0	
ď	

To study fluctuations in leaf water potential, samples of wood were taken from 22 trees and cut in the shape of a cube. The length of the edge of one of these cubes is 3.000 centimeters. This cube has a density of 0.250 grams per cubic centimeter. What is the mass of this cube, in grams?



100%

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Mark for Review



Question 19 of 22 A

What are all solutions to the given equation?



$$\bigcirc$$
 0 and $-\frac{18}{5}$

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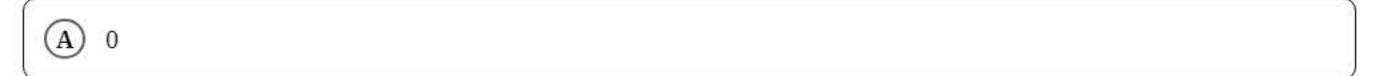
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Mark for Review

$$x^2$$
-84x-14=0

What is the sum of the solutions to the given equation?



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Student-produced response directions

Directions ~

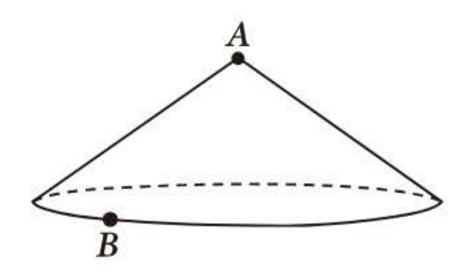
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Examples

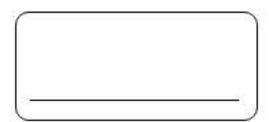
Answer	AnswerAcceptable ways to enter answer	Unacceptable: will NOT receive credit
and the second	3.5 3.50 7/2	31/2
3.5	3.50	3 1/2
	7/2	3 1/2
	2/3	0.00
	.6666	0.66 .66 0.67
2 3	.6667	
3:	0.666	0.67
	0.667	,6/
	-1/3	22
_ 1	3333	33
3	-0.333	-0.53

For the right circular cone shown, B is a point on the circumference of the base, and the length of segment AB (not shown) is 32 centimeters. If the height of the cone is 16 centimeters and the volume of the cone is $k\pi$ cubic centimeters, what is the value of k?





Note: Figure not drawn to scale.



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 X^2

100%

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In the xy-plane, line k and line l are perpendicular and intersect at the point (2, 8). If line k is defined by the equation y=mx+b, where m and b are constants and m>1, which of the following points lies on line l?

B
$$\left(3, 8 + \frac{1}{m}\right)$$

$$\bigcirc$$
 $(3, 8-m)$

D
$$(3, 8+m)$$