Math Warm Up

How many solutions does the system of linear equation have? (one, infinitely many, no solution)

$$x=8-y$$

$$4x + 4y = 16$$

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No Solution

Galileo Review

19) How many solutions does this system of equations have?

$$\begin{cases} x + 1 = 2y \\ x - 1 = 2y \end{cases}$$

A) none

B) exactly one

C) exactly two

D) infinitely many

Galileo Review

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Galileo Review

15) Sam bought a total of 25 hamburgers and hot dogs. His total bill was $70.50. If each hamburger cost $3 and each hot dog cost $2.50, how many hot dogs did Sam buy?

A) 3

B) 9

C) 16

D) 22

Galileo Review

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Galileo Review

17) What is the solution?

$$\begin{cases} 2x - y = 0 \\ x + 2y = 10 \end{cases}$$

A) $x = -10, y = 10$

B) $x = -3\frac{1}{3}, y = 6\frac{2}{3}$

C) $x = 2, y = 4$

D) There are no solutions.

Galileo Review

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Galileo Review

21) Which is an accurate conclusion regarding the system of equations below?

$x - y = 10$
$y = x - 10$

A) There is no solution, since both equations have the same slope.

B) There are infinitely many solutions, since the same line represents both equations.

C) The only solution is the ordered pair (0, 10).

D) The only solution is the ordered pair (10, 0).

Galileo Review

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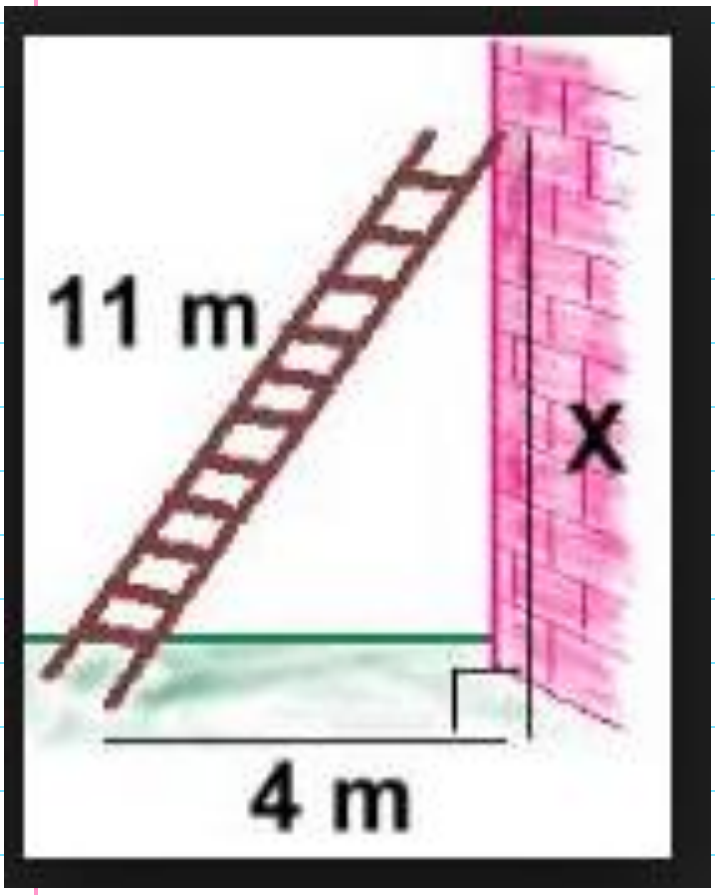
Galileo Review



Galileo Review

Write the following expression as a positive exponent

$$5^{-2}$$

Galileo Review

Write the following expression as a positive exponent

$$5^{-2} = \frac{1}{5^2} = \frac{1}{25}$$

Galileo Review

32) What is the equation of the line that fits the data below?

x	3	2	1	0	-1	-2	-3
y	15	11	7	3	-1	-5	-9

A) $y = 4x - 3$

B) $y = 4x + 3$

C) $y = 3x - 4$

D) $y = 3x + 4$

Galileo Review

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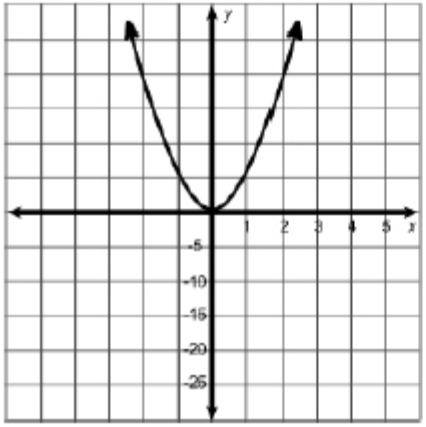
Galileo Review

8) Which equation is related to the graph shown below?



A) $y = x^2$

B) $y = 2x^2$

C) $y = 3x^2$

D) $y = 5x^2$

Galileo Review

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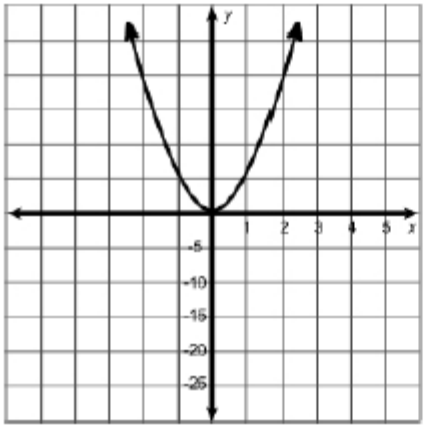

A) $y = x^2$

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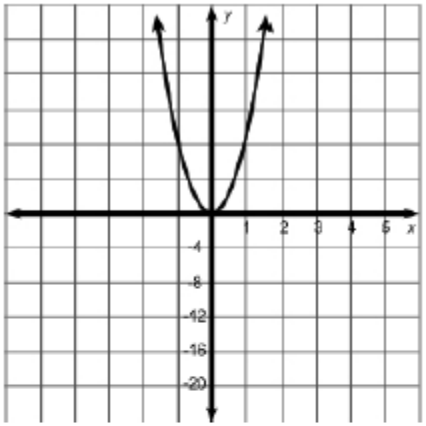
Galileo Review

10) Which equation is related to the graph shown below?



A) $y = 8x^2$

B) $y = 4x^2$

C) $y = 2x^2$

D) $y = x^2$

Galileo Review

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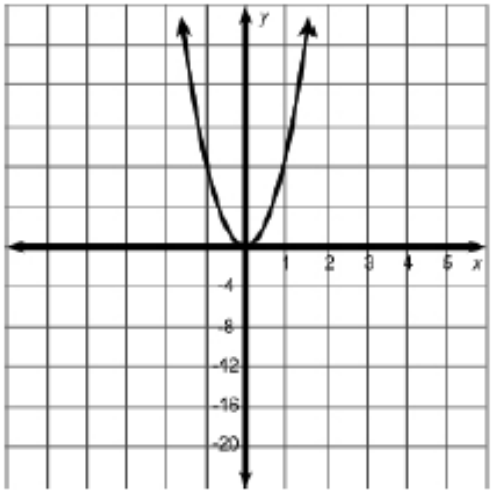


✔ A) $y = 8x^2$

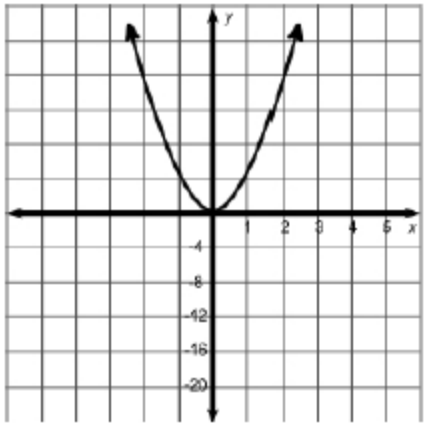
B) $y = 4x^2$

C) $y = 2x^2$

D) $y = x^2$

Galileo Review

12) Which equation is related to the graph shown below?



A) $y = 8x^2$

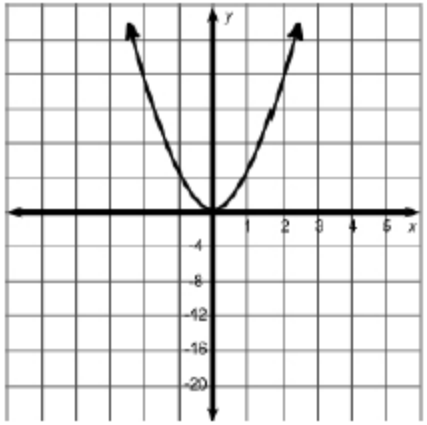
B) $y = 6x^2$

C) $y = 4x^2$

D) $y = 2x^2$

Galileo Review

12) Which equation is related to the graph shown below?



A) $y = 8x^2$

B) $y = 6x^2$

✔ C) $y = 4x^2$

D) $y = 2x^2$

Objective

TSW demonstrate knowledge of expressions & equations, functions, real number system, statistics and probability by solving problems in the Galileo Post review.

Common Core State Standards

Expressions & Equations, Functions, Number System, Geometry, Number System

Mathematical Practices *MP3 Construct arguments MP 4 Model Mathematics MP5 Use tools strategically*