#### ID: 3c95093c

$$6x - 9y > 12$$

Which of the following inequalities is equivalent to the inequality above?

A. 
$$x - y > 2$$

B. 
$$2x - 3y > 4$$

C. 
$$3x - 2y > 4$$

D. 
$$3y - 2x > 2$$

# ID: 1e003284

$$egin{aligned} x &= 49 \ y &= \sqrt{x} + 9 \end{aligned}$$

The graphs of the given equations intersect at the point (x,y) in the xy-plane. What is the value of y?

- A. **16**
- B. **40**
- C. **81**
- D. **130**

# ID: ad03127d

$$6r=7s+t$$

The given equation relates the variables r, s, and t. Which equation correctly expresses s in terms of r and t?

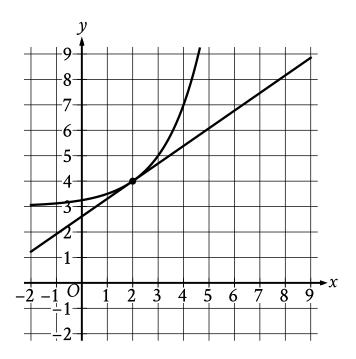
A. 
$$s=42r-t$$

B. 
$$s=7(6r-t)$$

C. 
$$s=rac{6}{7}r-t$$

D. 
$$s=rac{6r-t}{7}$$

# ID: 4ca30186



The graph of a system of a linear equation and a nonlinear equation is shown. What is the solution (x,y) to this system?

- A. (0,0)
- B. (0, 2)
- C. (2,4)
- D. (4,0)

# ID: 3de7a7d7

Which of the following is a solution to the equation  $2x^2-4=x^2$ ?

- A. 1
- B. 2
- C. 3
- D. 4

## ID: 70f98ab4

$$q-29r=s$$

The given equation relates the positive numbers q, r, and s. Which equation correctly expresses q in terms of r and s?

A. 
$$q=s-29r$$

B. 
$$q=s+29r$$

C. 
$$q=29rs$$

D. 
$$q=-rac{s}{29r}$$

# ID: 568aaf27

$$x + y = 12$$

$$y = \chi^2$$

If (x,y) is a solution to the system of equations above, which of the following is a possible value of x?

- A. 0
- B. 1
- C. 2
- D. 3

#### ID: b76a2815

$$P = \frac{W}{t}$$

The power P produced by a machine is represented by the equation above, where W is the work performed during an amount of time t. Which of the following correctly expresses W in terms of P and t?

A. 
$$W = Pt$$

B. 
$$W = \frac{P}{t}$$

$$_{C.}W = \frac{t}{P}$$

D. 
$$W = P + t$$

## ID: a67a439d

$$x + 7 = 10$$
$$(x + 7)^2 = y$$

 $x+7=10 \ (x+7)^2=y$  Which ordered pair (x,y) is a solution to the given system of equations?

- A. (3,100)
- B. **(3,3)**
- C.(3,10)
- D. (3,70)

# ID: ce940f80

$$\frac{x^2}{25} = 36$$

 $rac{x^2}{25}=36$  What is a solution to the given equation?

- A. **6**
- B. **30**
- $\mathsf{C.}\ 450$
- D. **900**

# ID: c7789423

$$|x-2| = 9$$

|x-2|=9 What is one possible solution to the given equation?

# ID: eb268057

$$x^2 = 64$$

Which of the following values of *x* satisfies the given equation?

- A. -8
- B. 4
- C. 32
- D. 128

#### ID: 98f735f2

The total revenue from sales of a product can be calculated using the formula T = PQ, where T is the total revenue, P is the price of the product, and Q is the quantity of the product sold. Which of the following equations gives the quantity of product sold in terms of P and T?

$$_{A.}Q = \frac{P}{T}$$

$$_{\rm B.}Q = \frac{T}{P}$$

C. 
$$Q = PT$$

D. 
$$Q = T - P$$

## ID: fcb78856

$$b=42cf$$

The given equation relates the positive numbers b, c, and f. Which equation correctly expresses c in terms of b and f?

A. 
$$c=rac{b}{42f}$$

B. 
$$c=rac{b-42}{f}$$

C. 
$$c=42bf$$

D. 
$$c=42-b-f$$

# ID: 4236c5a3

If  $(x+5)^2 = 4$ , which of the following is a possible value of x?

- A. 1
- B. **−1**
- C. **–2**
- D. **-3**

## ID: f11ffa93

 $\sqrt{x+4}=11$ 

What value of *x* satisfies the equation above?