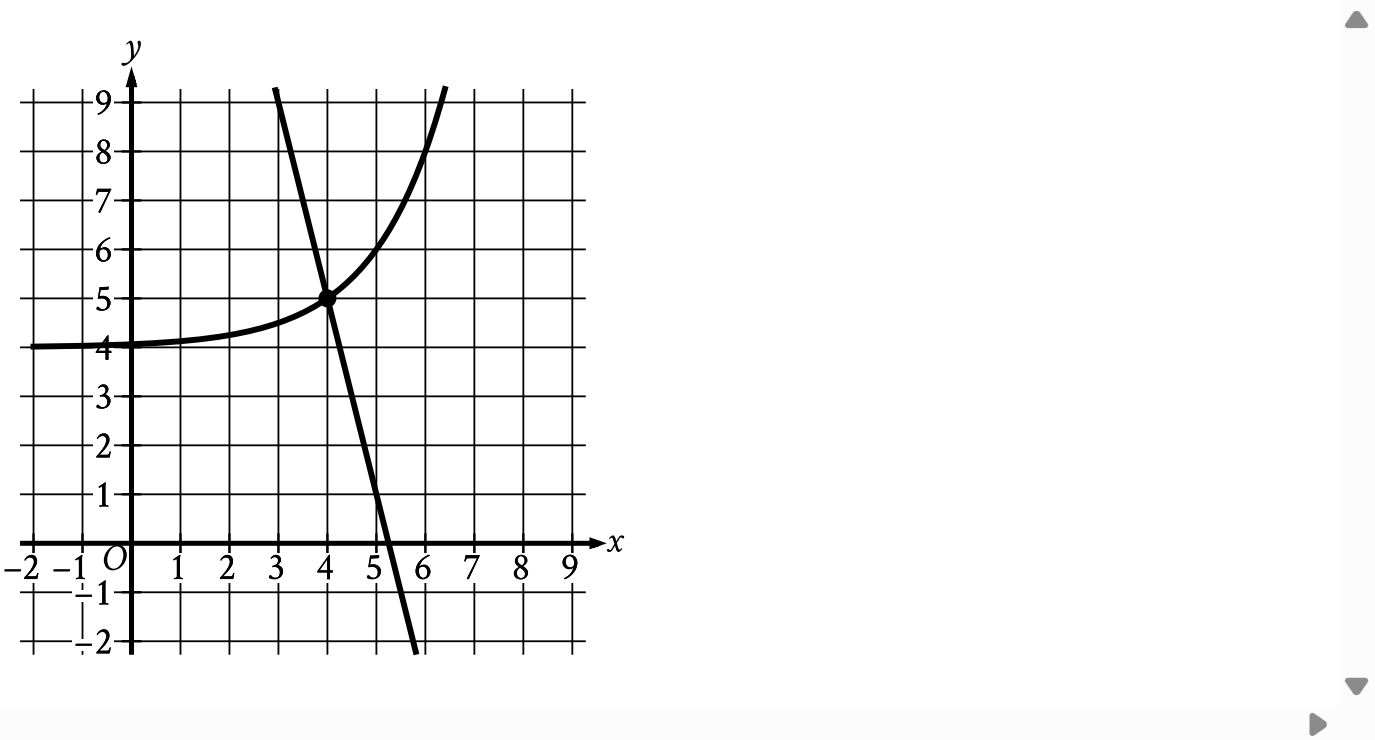


Question ID 78c1bf85

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: 78c1bf85



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, 4)
- C. (4, 5)
- D. (5, 0)

Question ID 6481c302

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: 6481c302

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

What is a solution to the given equation?

- A. 6
- B. 30
- C. 450
- D. 900

Question ID b732b6c0

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: b732b6c0

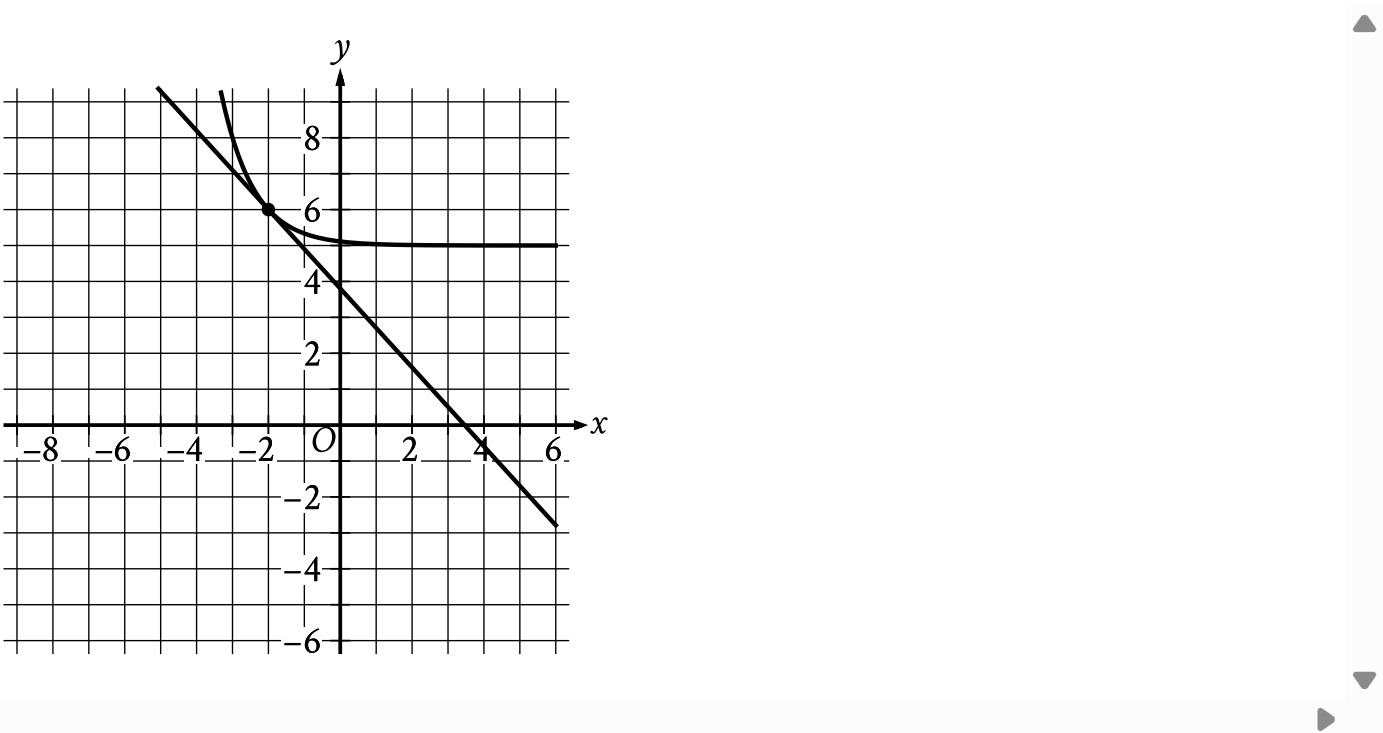
$|x - 5| = 10$

What is one possible solution to the given equation?

Question ID 0eeb74f3

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: 0eeb74f3



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. $(6, 0)$
- B. $(-2, 6)$
- C. $(0, -2)$
- D. $(0, 0)$

Question ID a714b25a

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: a714b25a

$$|x - 2| = 9$$

What is one possible solution to the given equation?

Question ID b8fa47e9

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: b8fa47e9

$$k^2 - 53 = 91$$

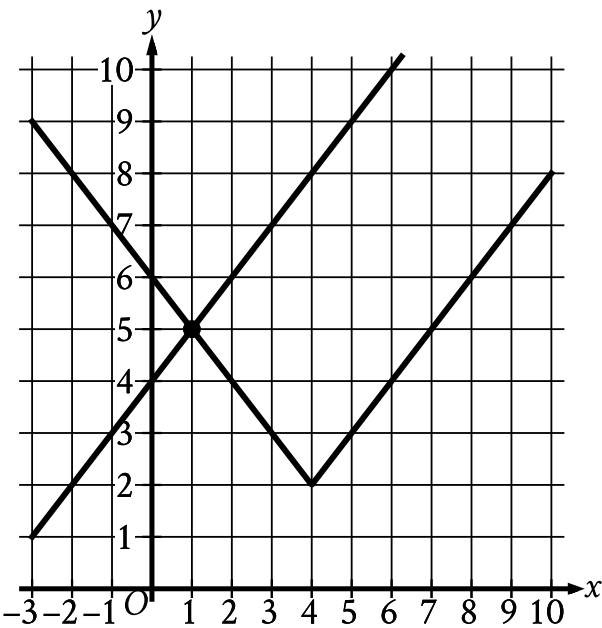
What is the positive solution to the given equation?

- A. 144
- B. 72
- C. 38
- D. 12

Question ID af691219

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: af691219



The graph of a system of an absolute value function and a linear function is shown. What is the solution (x, y) to this system of two equations?

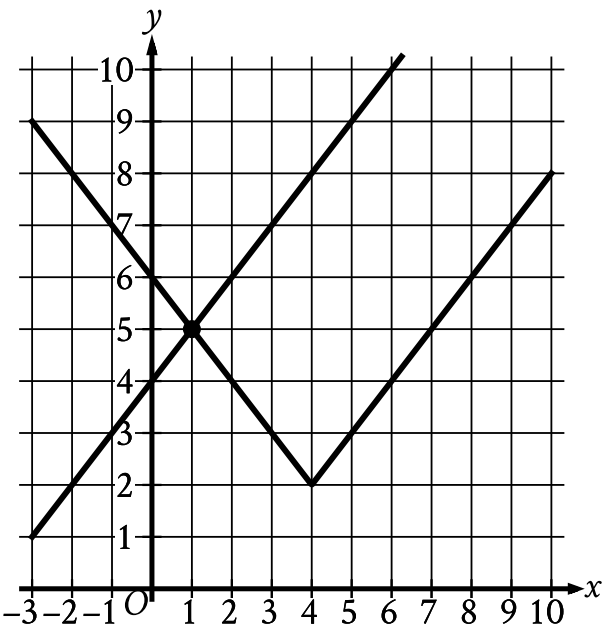
- A. $(-1, 5)$
- B. $(0, 4)$
- C. $(1, 5)$
- D. $(4, 2)$



Question ID af691219

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: af691219



The graph of a system of an absolute value function and a linear function is shown. What is the solution (x, y) to this system of two equations?

- A. $(-1, 5)$
- B. $(0, 4)$
- C. $(1, 5)$
- D. $(4, 2)$



Question ID a85c6c61

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: a85c6c61

$|x + 45| = 48$

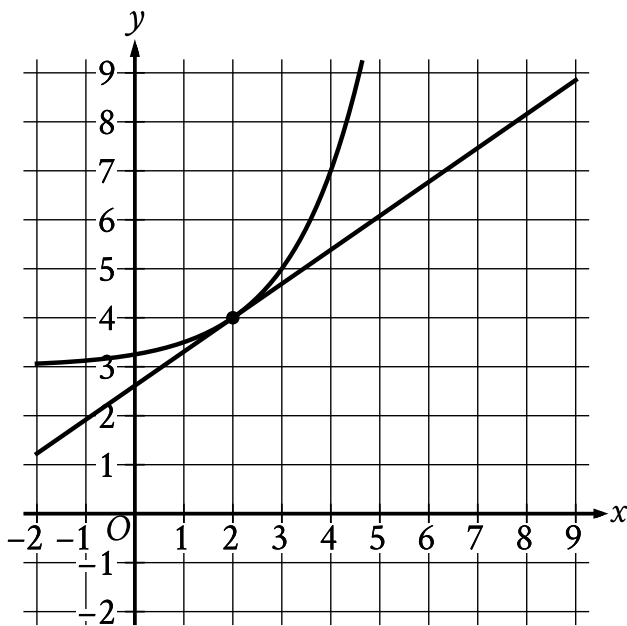
What is the positive solution to the given equation?

- A. 3
- B. 48
- C. 93
- D. 96

Question ID c35b7410

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: c35b7410



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. $(4, 0)$

Question ID 1563ad0d

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Advanced Math	Nonlinear equations in one variable and systems of equations in two variables	

ID: 1563ad0d

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

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