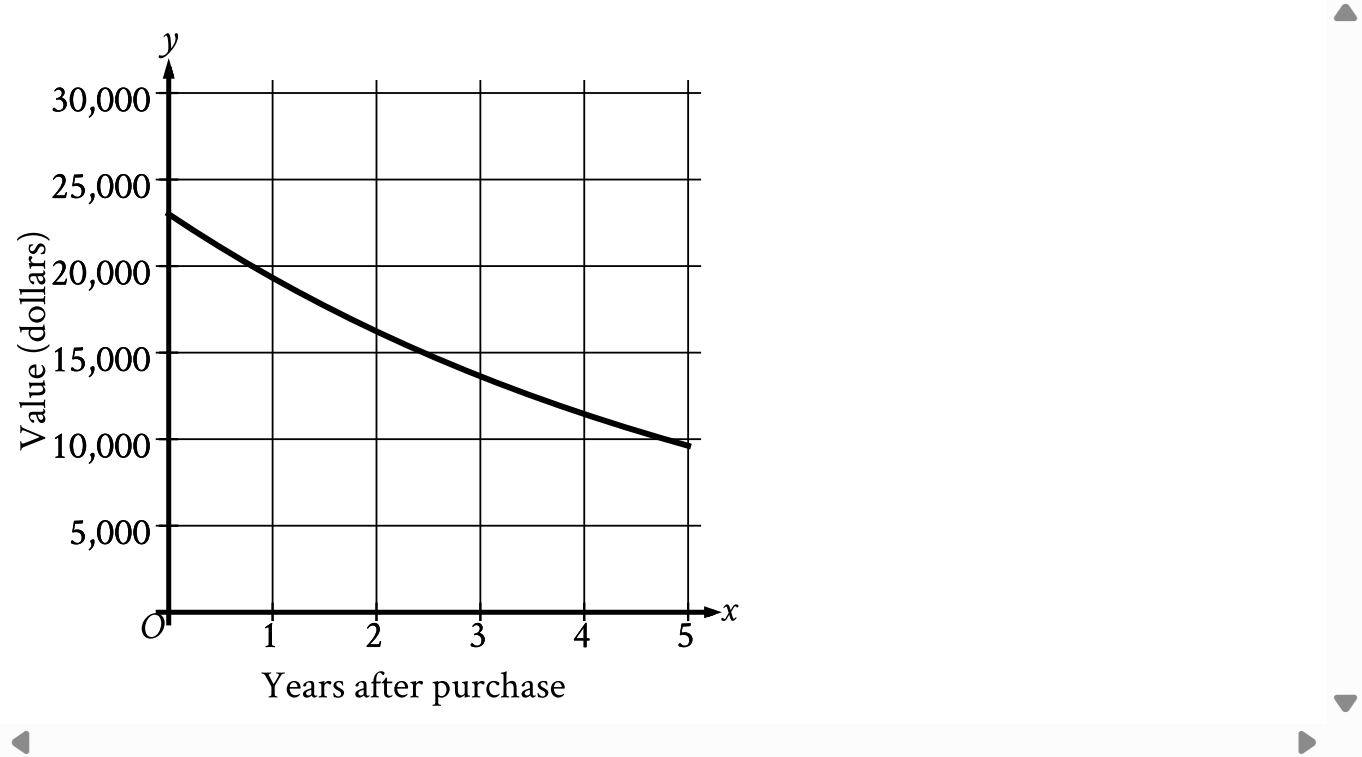


Question ID cc2a1d30

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: cc2a1d30

The graph shows the predicted value y , in dollars, of a certain sport utility vehicle x years after it is first purchased.



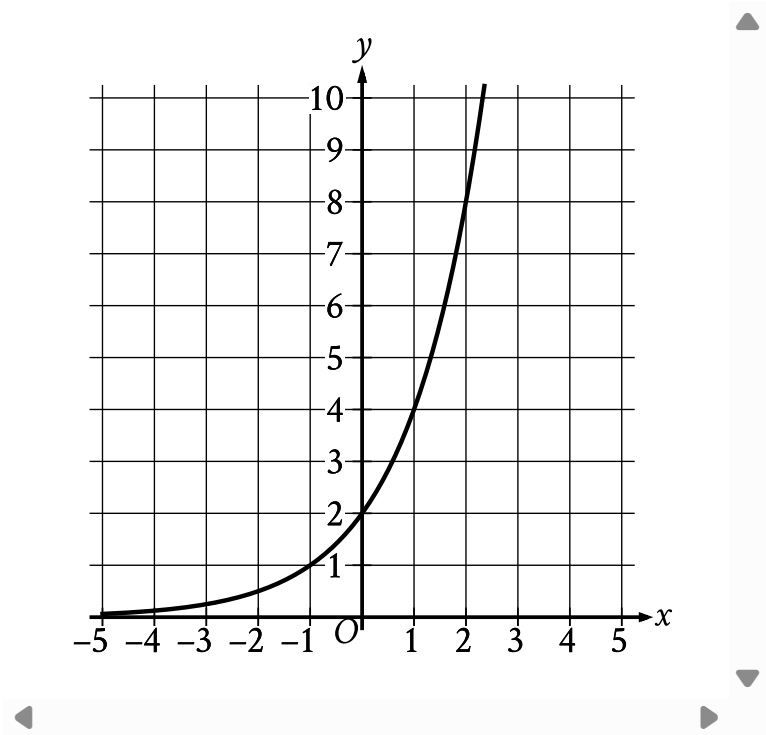
Which of the following is closest to the predicted value of the sport utility vehicle **3** years after it is first purchased?

- A. \$9,619
- B. \$13,632
- C. \$19,320
- D. \$23,000

Question ID 8c6835c1

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 8c6835c1



What is the y-intercept of the graph shown?

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

Question ID 2eea7b52

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 2eea7b52

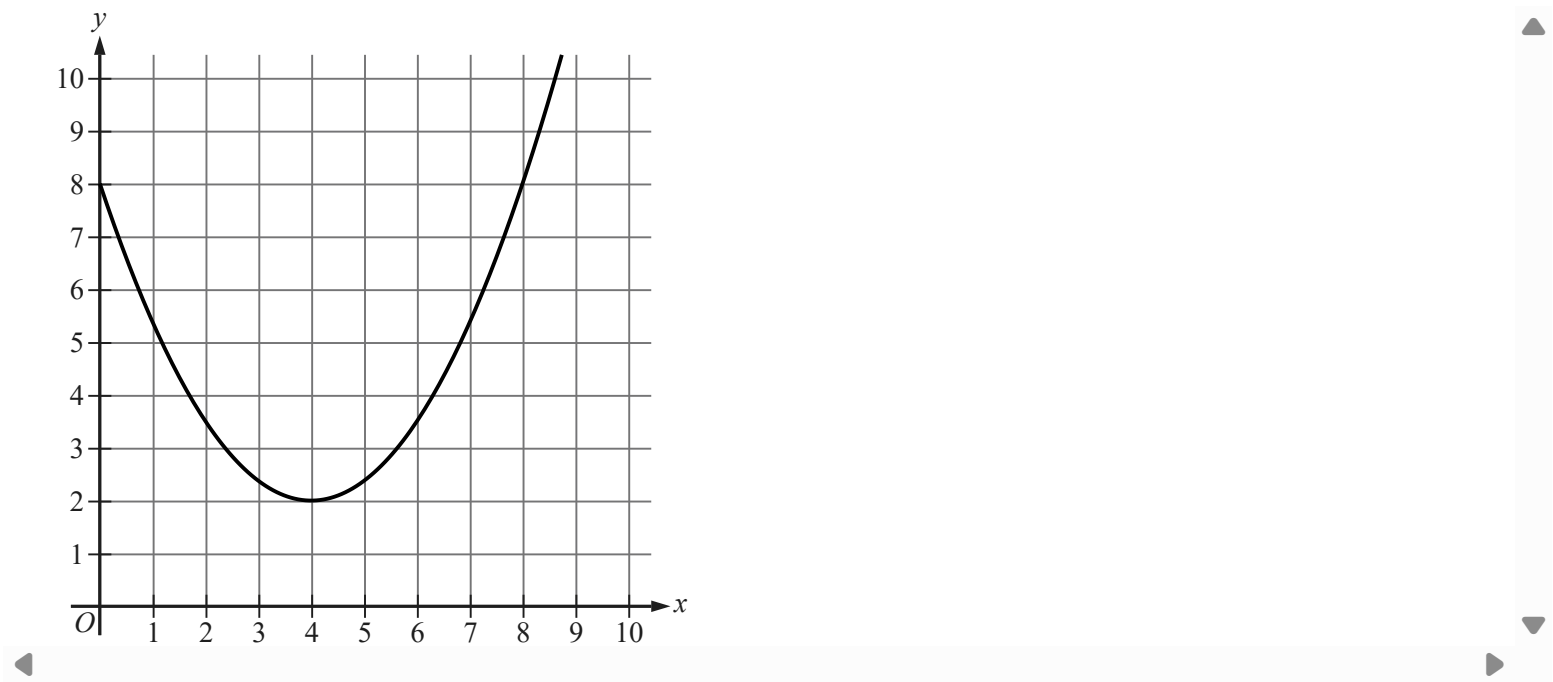
The function f is defined by $f(x) = \frac{16}{x}$. What is the value of $f(x)$ when $x = 17$?

- A. $\frac{16}{17}$
- B. $\frac{17}{16}$
- C. 16
- D. 17

Question ID 2727dcca

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 2727dcca



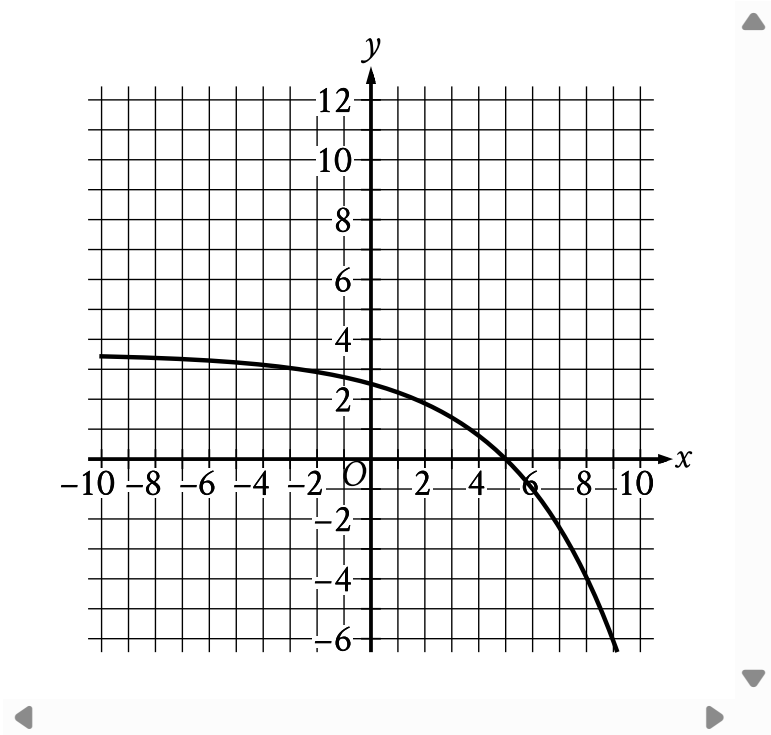
The graph shows a marble's height above the ground y , in inches, x seconds after it started moving on an elevated track of a marble run. Which of the following is the best interpretation of the y -intercept of the graph?

- A. The marble's height was **0** inches above the ground **8** seconds after it started moving.
- B. The marble's height was **8** inches above the ground when it started moving.
- C. The marble's minimum height was **0** inches above the ground.
- D. The marble's minimum height was **8** inches above the ground.

Question ID 1198f87c

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 1198f87c



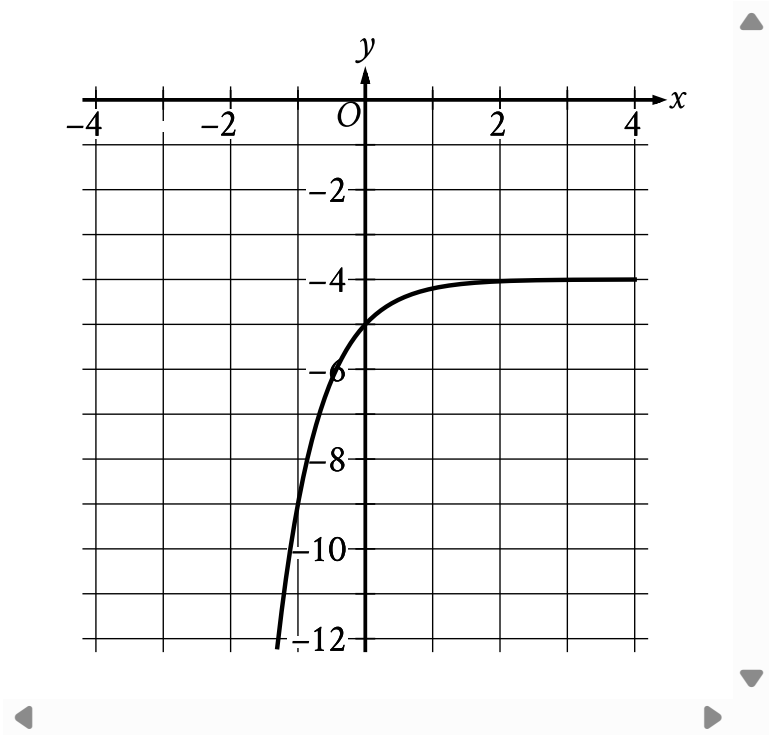
What is the x-intercept of the graph shown?

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

Question ID 4e022767

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 4e022767



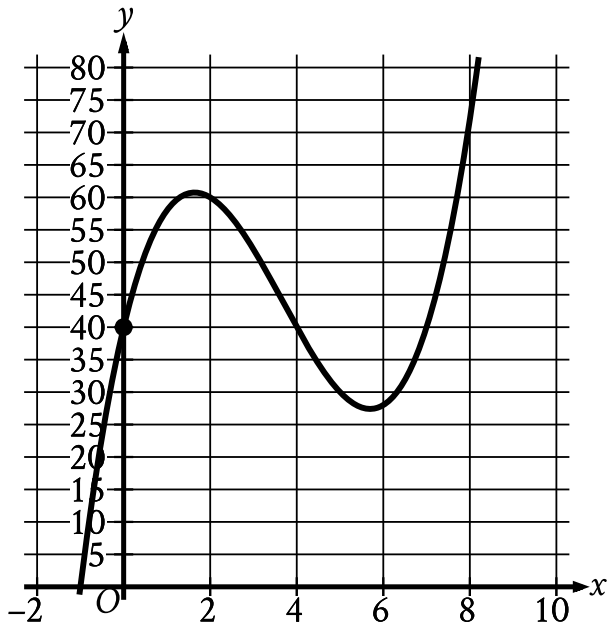
What is the **y**-intercept of the graph shown?

- A. $(-1, -9)$
- B. $(0, -5)$
- C. $(0, -4)$
- D. $(0, 0)$

Question ID 6a2300cc

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 6a2300cc

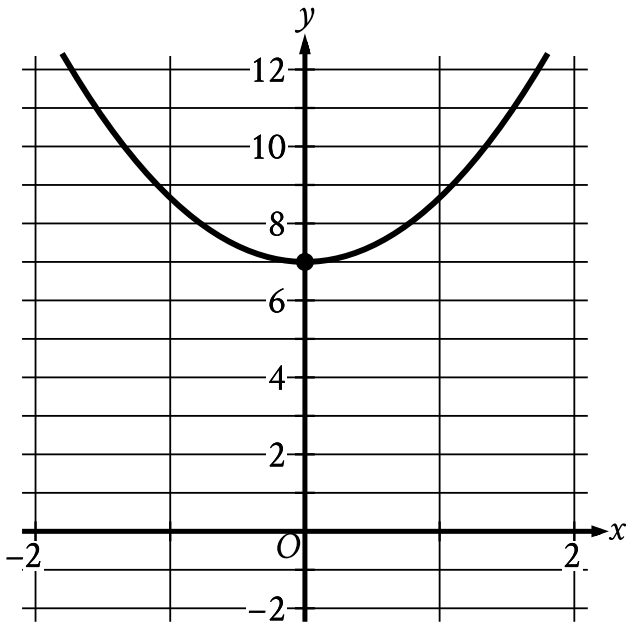


The y -intercept of the graph shown is (x, y) . What is the value of y ?

Question ID 133d2cae

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 133d2cae

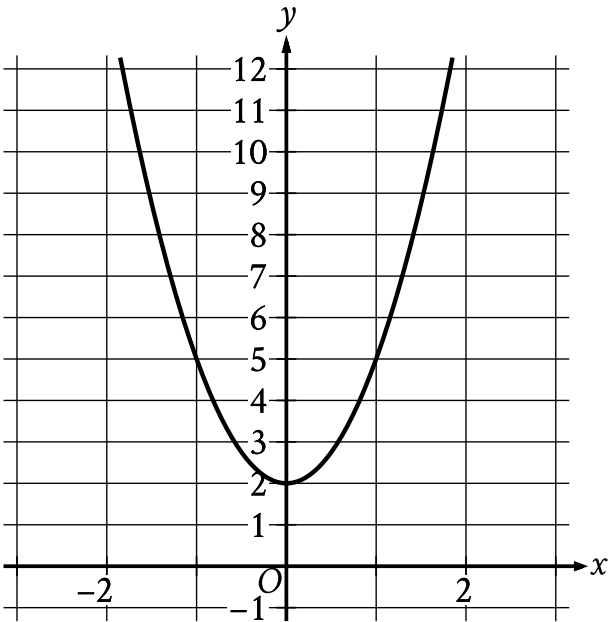


The parabola shown intersects the y -axis at the point (x, y) . What is the value of y ?

Question ID 0fbd30a3

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 0fbd30a3



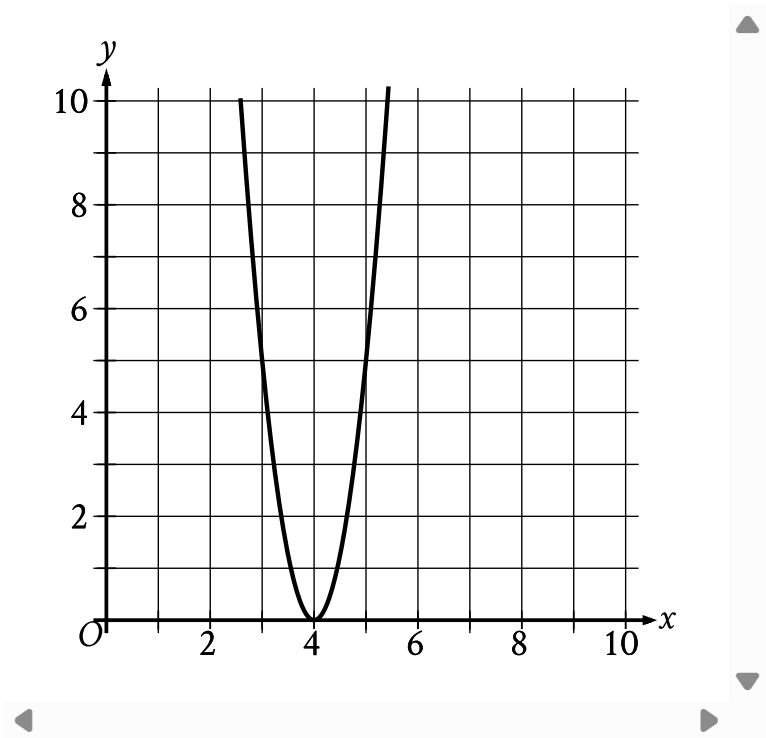
The graph of the quadratic function $y = f(x)$ is shown. What is the vertex of the graph?

- A. $(0, -2)$
- B. $(0, -3)$
- C. $(0, 2)$
- D. $(0, 3)$

Question ID 3ee02cd5

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 3ee02cd5



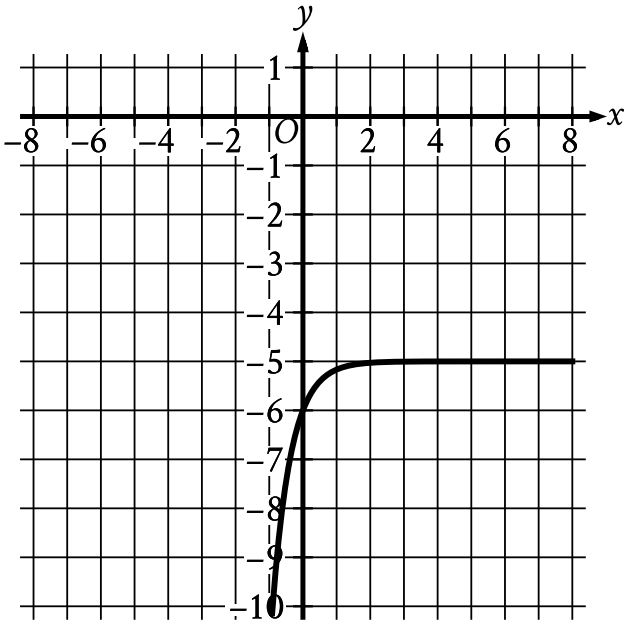
What is the x-intercept of the graph shown?

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

Question ID 47d2bec6

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 47d2bec6



What is the y-intercept of the graph shown?

- A. $(0, -6)$
- B. $(-6, 0)$
- C. $(0, 0)$
- D. $(-5, -5)$

Question ID 23e6769f

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	<div><div></div><div></div><div></div></div>

ID: 23e6769f

The function f is defined by $f(x) = \frac{1}{6x}$. What is the value of $f(x)$ when $x = 3$?

- A. $\frac{1}{3}$
- B. $\frac{1}{6}$
- C. $\frac{1}{9}$
- D. $\frac{1}{18}$