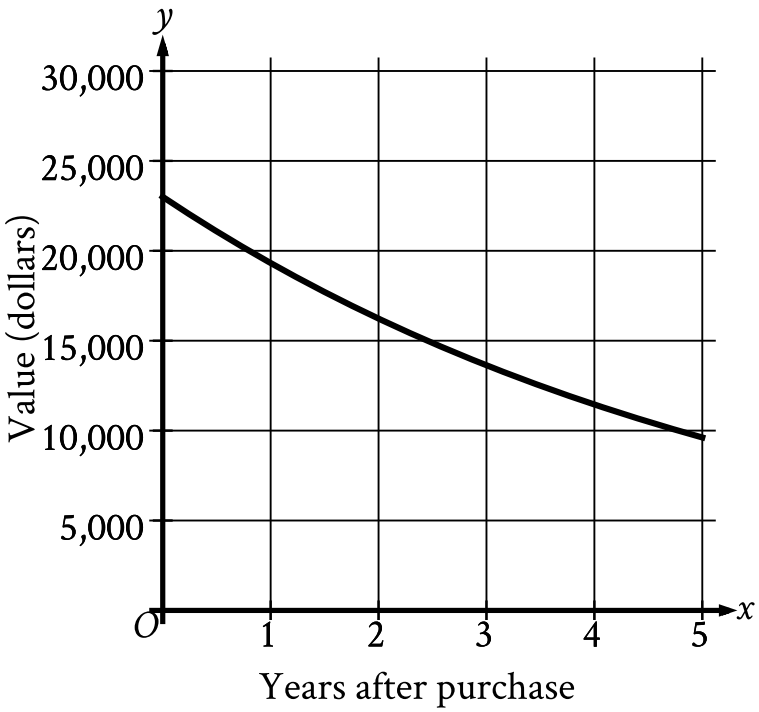
Question ID cc2a1d30

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

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

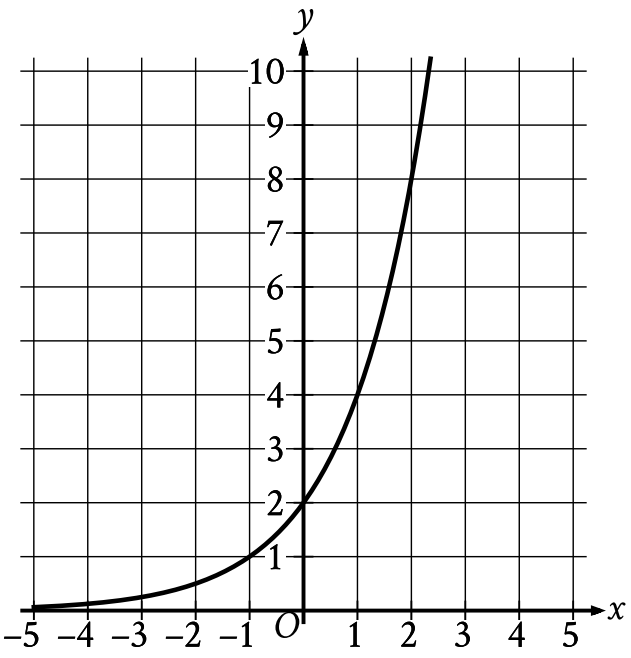
C. $19,320

D. $23,000

Question ID 8c6835c1

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

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	Easy

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. $\frac{17}{16}$

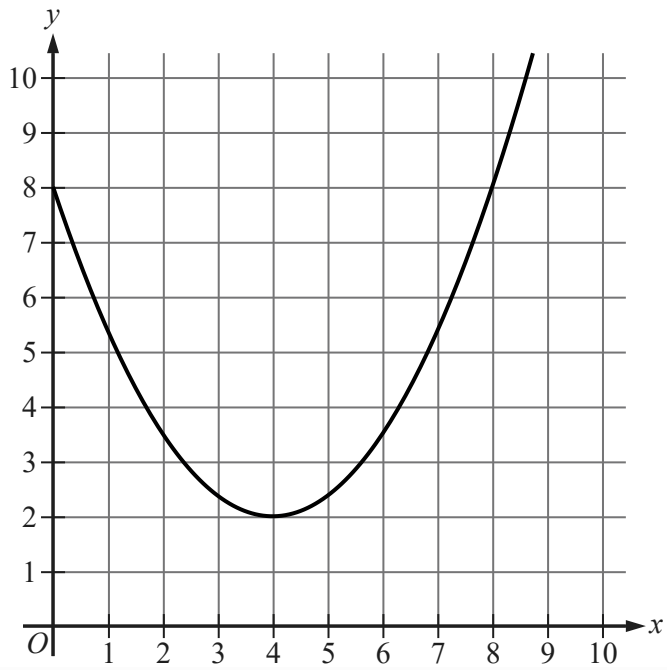
C. 16

D. 17

Question ID 2727dcca

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

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.

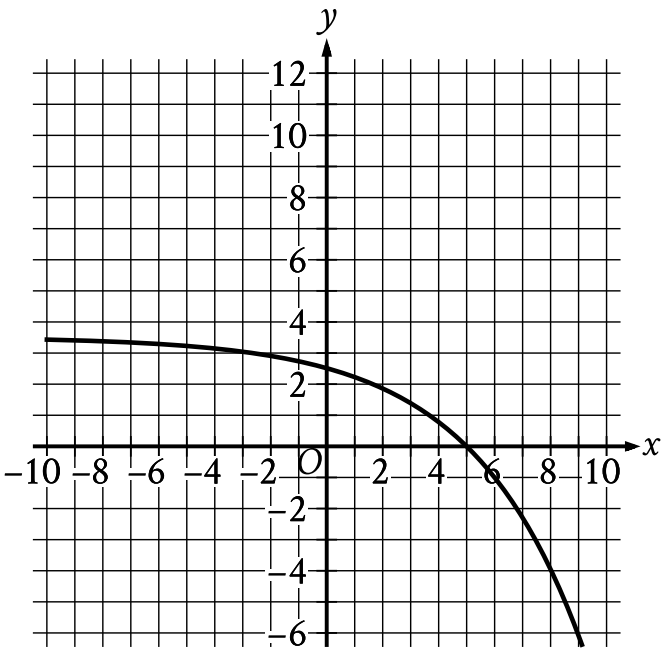
C. The marble's minimum height was 0 inches above the ground.

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	Easy

ID: 1198f87c



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

A. $(-5, 0)$

B. $(5, 0)$

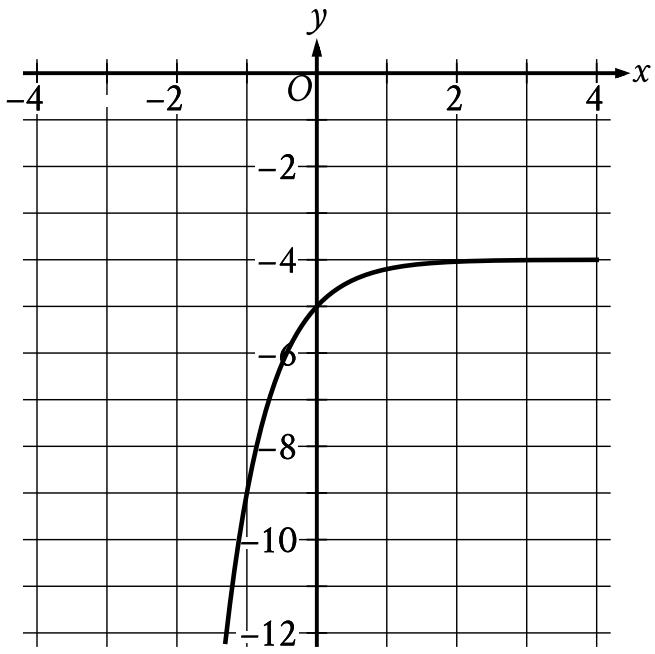
C. $(-2, 0)$

D. $(2, 0)$

Question ID 4e022767

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

ID: 4e022767



What is the y-intercept of the graph shown?

A. $(-1, -9)$

B. $(0, -5)$

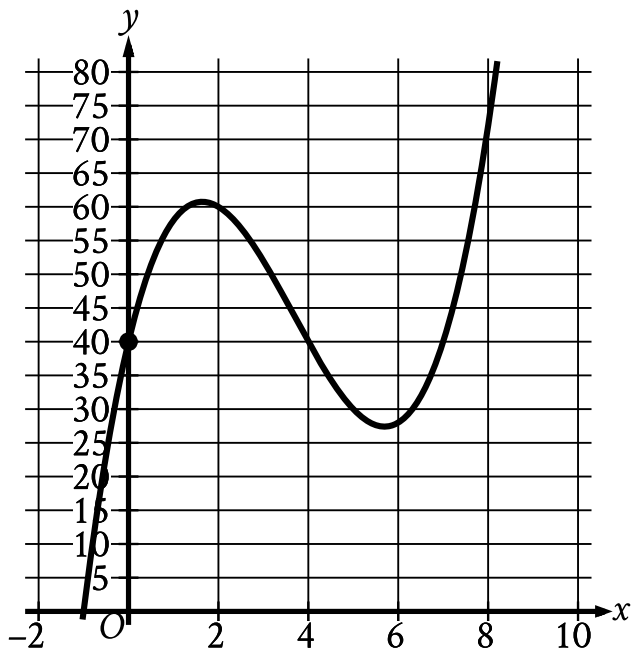
C. $(0, -4)$

D. $(0, 0)$

Question ID 6a2300cc

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

ID: 6a2300cc

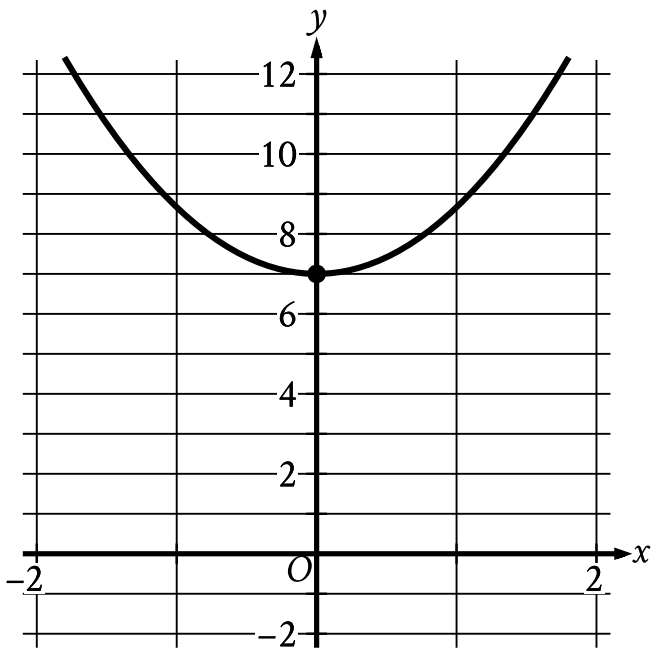


The *y*-intercept of the graph shown is (x, y). What is the value of y?

Question ID 133d2cae

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

ID: 133d2cae

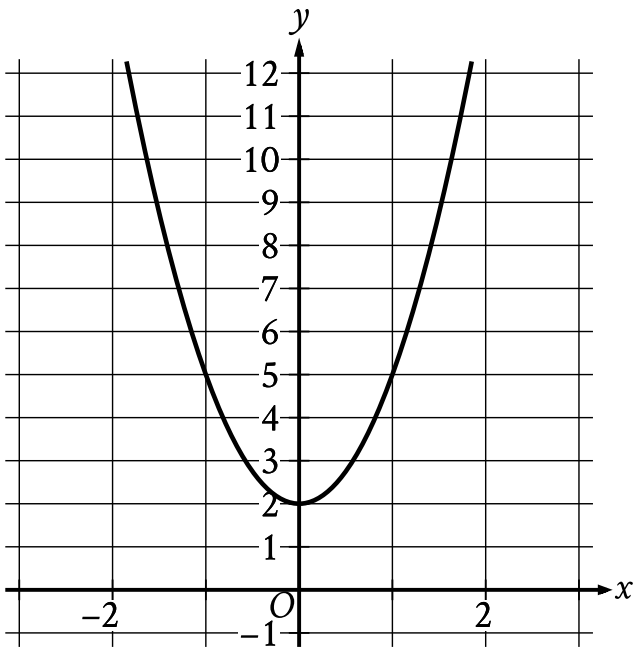


The parabola shown intersects the *y*-axis at the point (x, y). What is the value of y?

Question ID 0fbd30a3

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

ID: 0fbd30a3



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

A. $(0, -2)$

B. $(0, -3)$

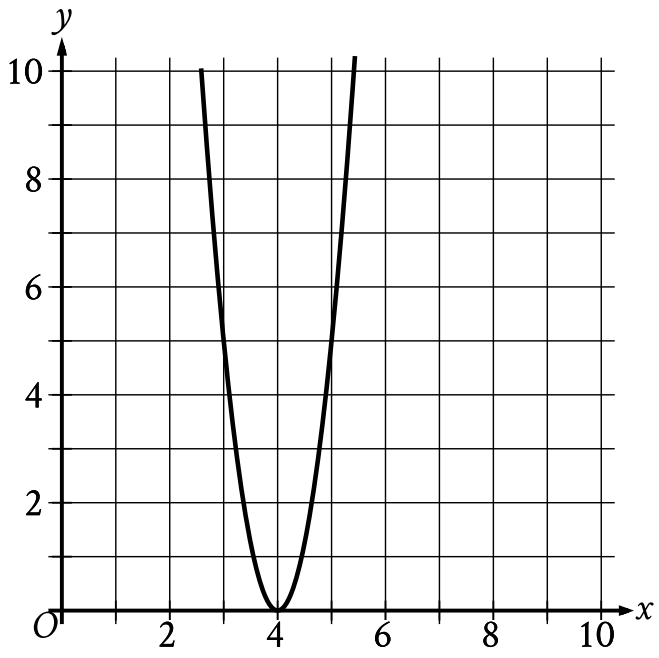
C. $(0, 2)$

D. $(0, 3)$

Question ID 3ee02cd5

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

ID: 3ee02cd5



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

A. $(-5, 0)$

B. $(5, 0)$

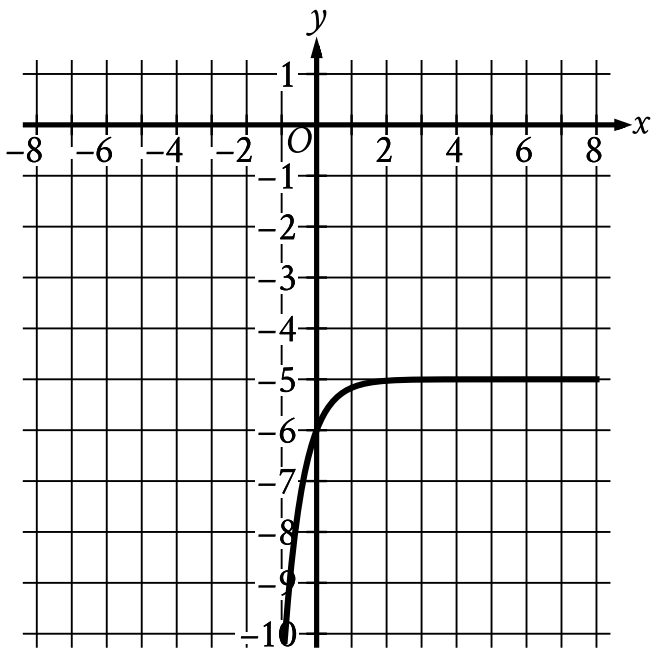
C. $(-4, 0)$

D. $(4, 0)$

Question ID 47d2bec6

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Advanced Math	Nonlinear functions	Easy

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	Easy

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. $\frac{1}{18}$