

MODULE 1

LESSON 9

QUIZ

1. Question. Which of the following is the inverse relation R^{-1} of the relation $R = \{(2, 3), (4, 5), (1, 5), (3, 4)\}$?

A. $\{(3, 4), (1, 5), (4, 5), (2, 3)\}$

B. $\{(3, 2), (5, 4), (5, 1), (4, 3)\}$

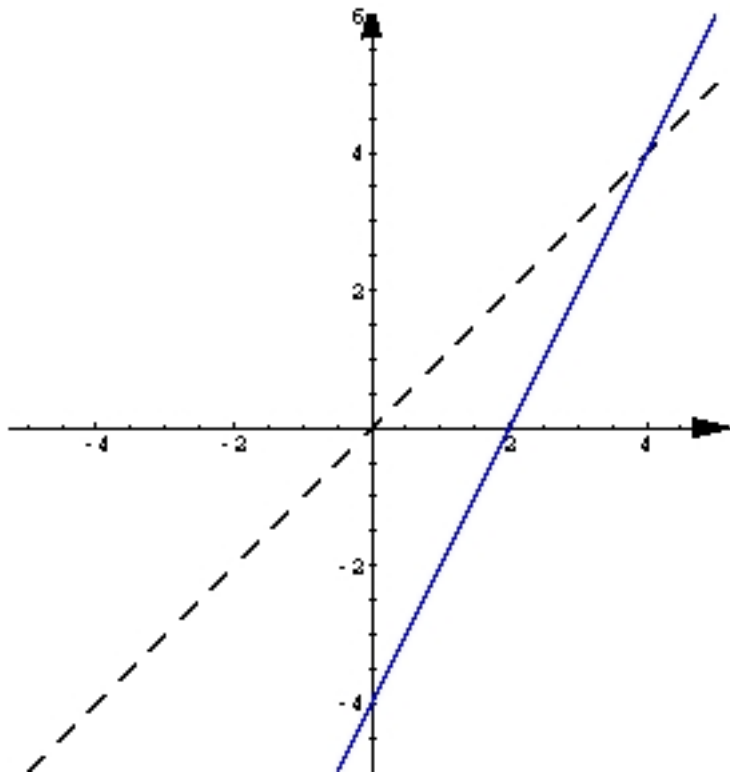
C. $\{(-2, -3), (-4, -5), (-1, -5), (-3, -4)\}$

D. $\{(2 - 1, 3 - 1), (4 - 1, 5 - 1), (1 - 1, 5 - 1), (3 - 1, 4 - 1)\}$

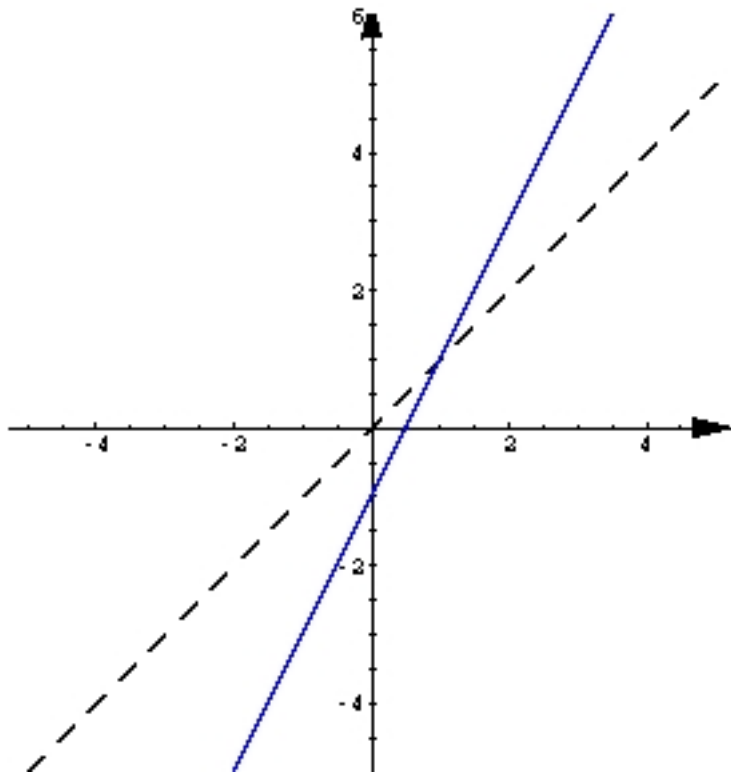
Go to answer 1

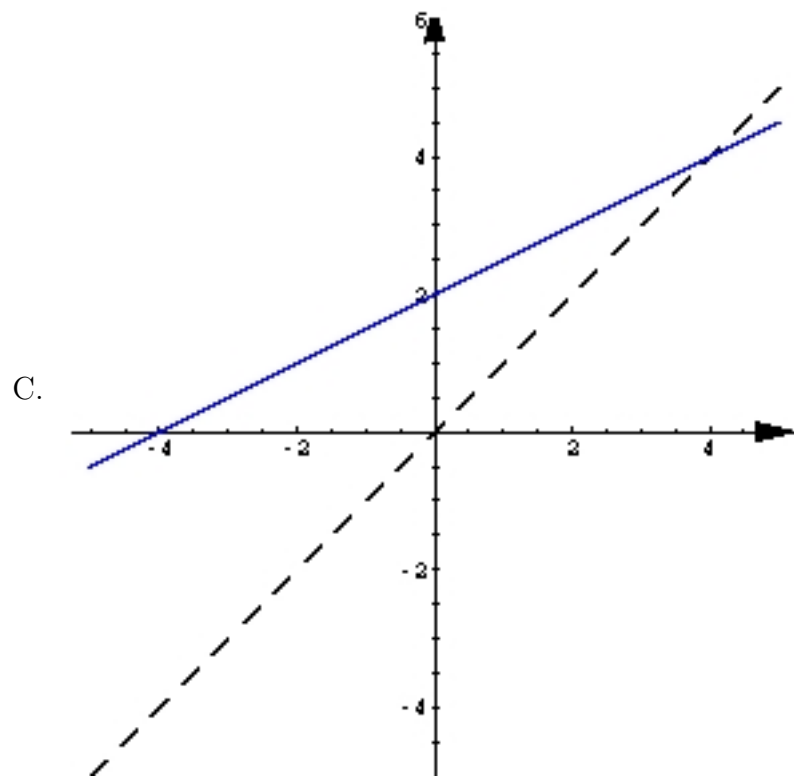
2. Question. Which of the following graphs represents the inverse relation of $2y = x + 4$?

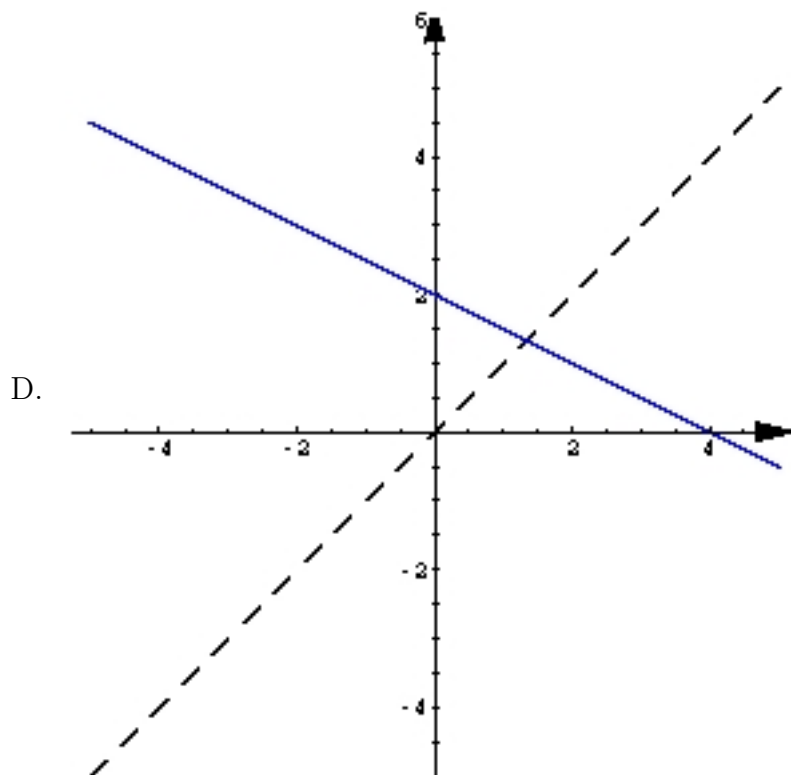
A.



B.







Go to answer 2

3. Question. Which of the following is the inverse of the relation $x < 2y$?

A. $y < 2x$

B. $x < -2y$

C. $x \neq 2y$

D. $x > 2y$

Go to answer 3

4. Question. Let $y = f(x)$ be function satisfying $f(4) = 7$ and let $y = f^{-1}(x)$ be the inverse of the function f . Find $f^{-1}(7)$.

A. 7

B. -7

C. 4

D. 7^{-1}

Go to answer 4

5. Question. Let $f(x) = 3x + 5$. The inverse function f^{-1} of the function f is:

A. $f^{-1}(x) = -3x - 5$

B. $f^{-1}(x) = 3x - 5$

C. $f^{-1} = \frac{1}{3}x - \frac{5}{3}$

D. $f^{-1} = \frac{1}{3}x - 5$

Go to answer 5

ANSWERS

1. Answer to Question 1 is "B".

Go back 1

2. Answer to Question 2 is "A".

Go back 2

3. Answer to Question 3 is "A".

Go back 3

4. Answer to Question 4 is "C".

Go back 4

5. Answer to Question 5 is "C".

Go back 5