

Directions: This is a study tool for the next regents review quiz.

1. If point (a, b) lies on the graph $y = f(x)$, the graph $y = f^{-1}(x)$ must contain point

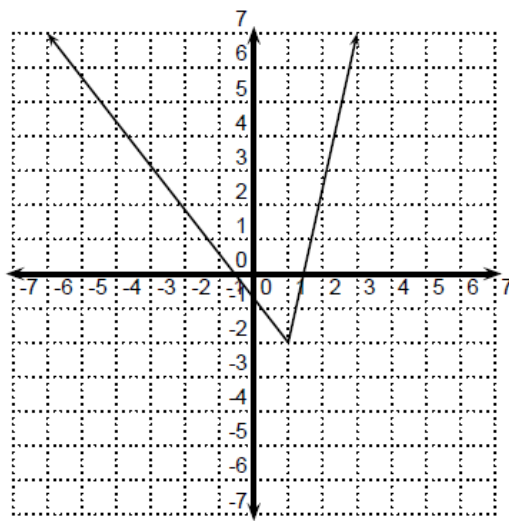
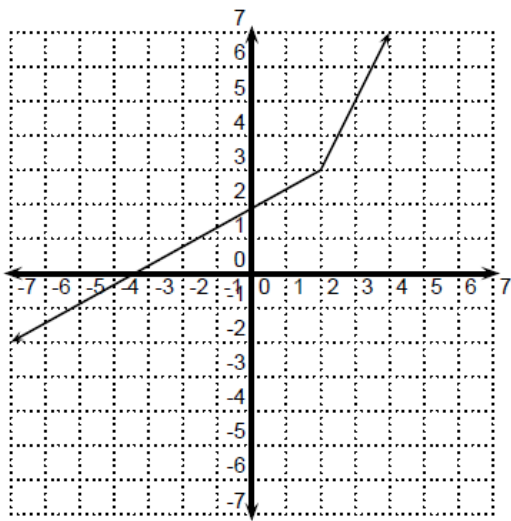
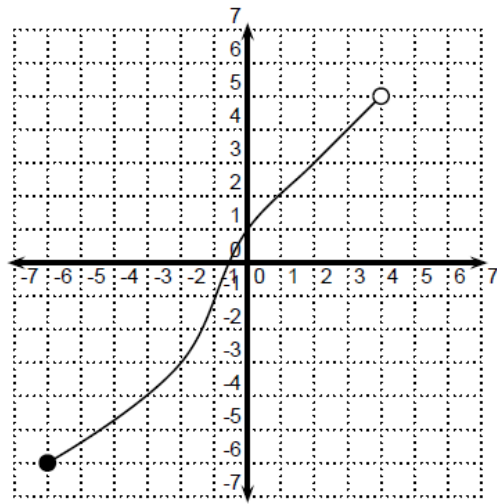
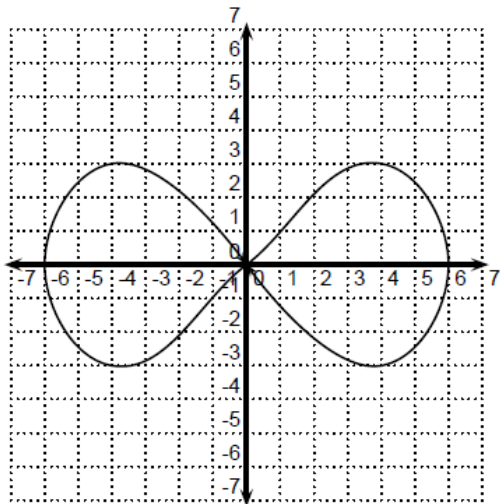
1. $(-b, -a)$
2. $(a, 0)$
3. (b, a)
4. $(-a, -b)$

Answer:

Explain your choice.



2. Circle the graphs that display a one-to-one function. If the graph displays a one-to-one functions, sketch its inverse.



3. Given $f^{-1}(x) = \frac{5}{6}x - 7$, find $f(x)$.

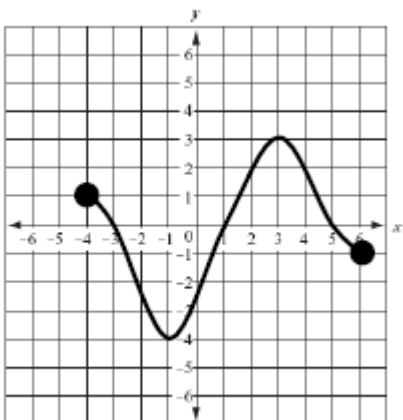
Justify your answer!



Answer:

4. State the intervals where this function is positive?

Explain your answer!



Answer:

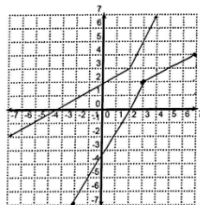
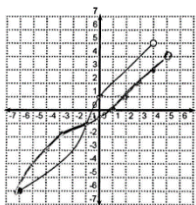
5. Give the domain of this function:

$$f(x) = \frac{3}{\sqrt{5x-2}}$$

Define domain and explain how you found it.



Answer:



Answers 1) 3 2)

5 5) $x > \frac{2}{5}$

3) $y = \frac{6}{5}x + \frac{42}{5}$ **4)** $-4 \leq x < -3$ and $1 < x <$