

Name: _____ Period: _____ Date: _____

Graphing Rational Functions Assignment

Find $f(x)$ given that x is the value below.

$$f(x) = \frac{3x+2}{x+1}$$

1. $x = 2$

3. $x = 4$

3. $x = -3$

4. $x = -5$

$$f(x) = \frac{6x-1}{3}$$

5. $x = 1$

6. $x = 2$

7. $x = 4$

8. $x = -2$

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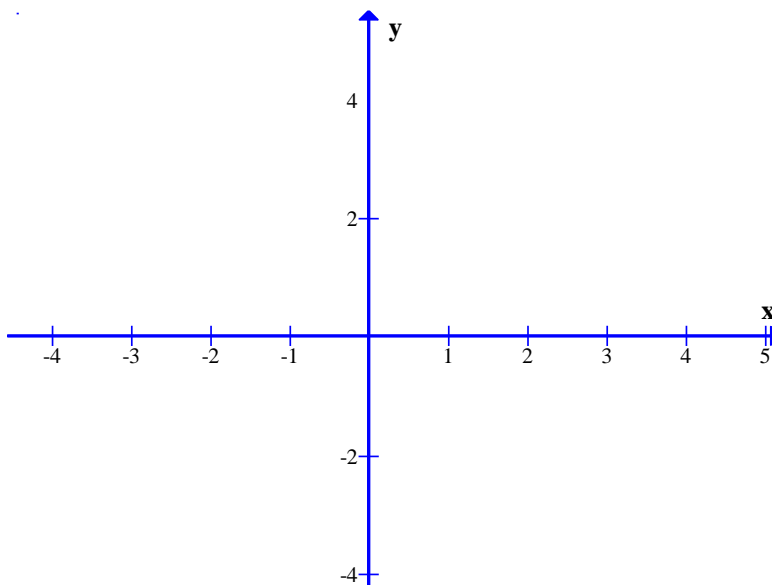
Graphing Rational Functions Assignment

Draw a graph of the following rational function by completing the table of values.

9. Complete the table of values for $y = \frac{3x+1}{2}$.

x	-2	-1	0	1	2
y					

10. Draw the graph of $y = \frac{3x+1}{2}$.



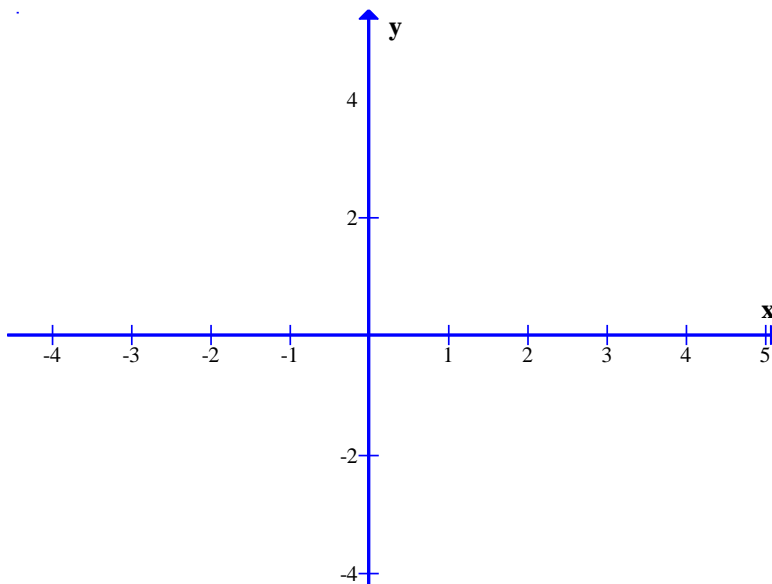
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Graphing Rational Functions Assignment

11. Complete the table of values for $y = \frac{4x-1}{3}$.

x	-2	-1	0	1	2
y					

12. Draw the graph of $y = \frac{4x-1}{3}$.



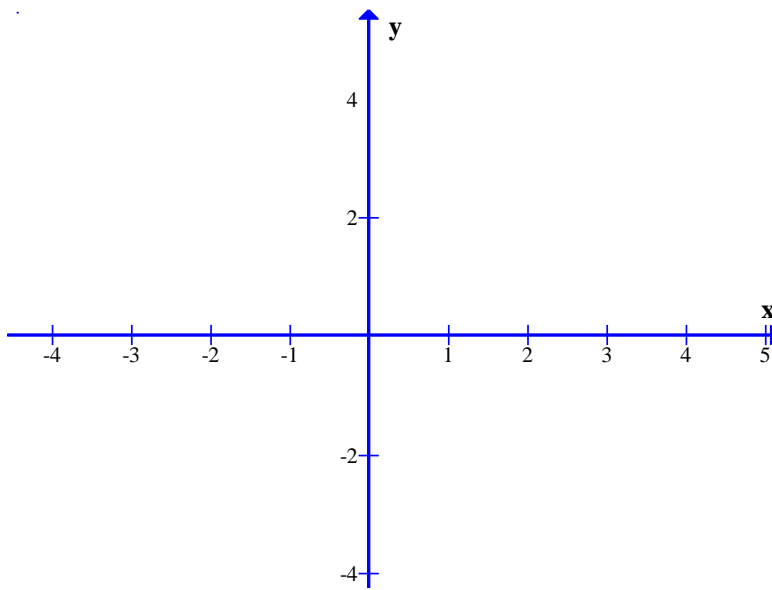
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Graphing Rational Functions Assignment

13. Complete the table of values for $y = -\frac{2}{3}x + 1$.

x	-2	-1	0	1	2
y					

14. Draw the graph of $y = -\frac{2}{3}x + 1$.

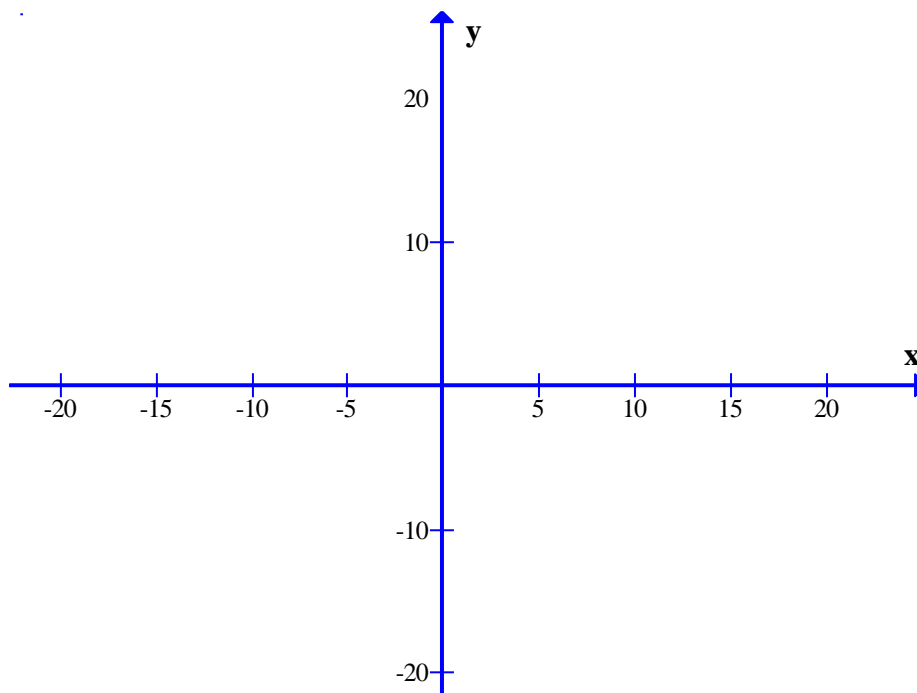


Graphing Rational Functions Assignment

Draw the graph of the following rational function using x and y intercept.

15. Find the x and y intercept of $y = \frac{x+1}{x-2}$.

16. Draw the graph of $y = \frac{x+1}{x-2}$.

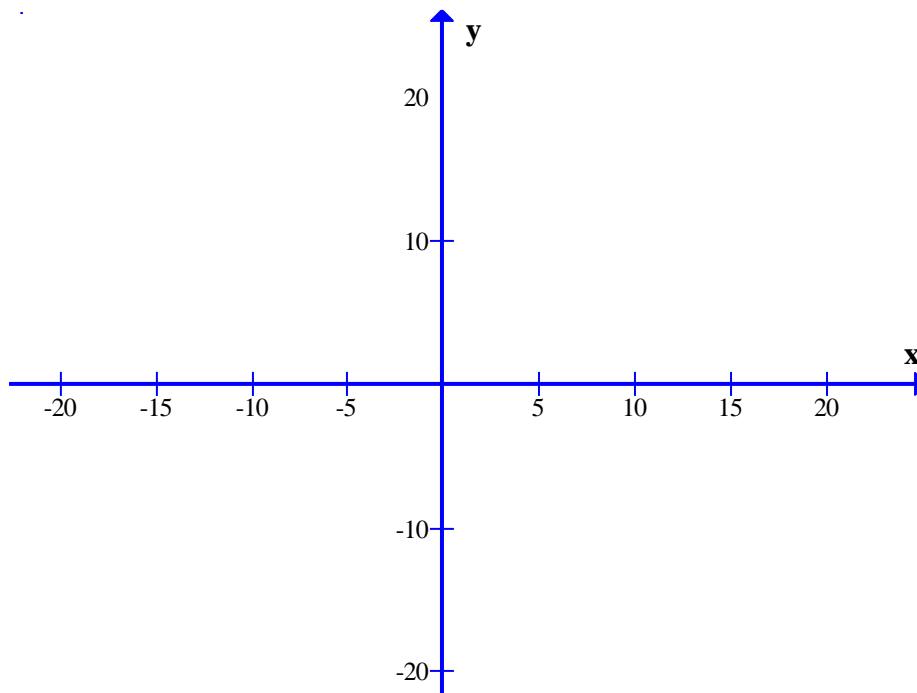


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17. Find the x and y intercept of $y = \frac{x-2}{x+4}$.

18. Draw the graph of $y = \frac{x-2}{x+4}$.



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Graphing Rational Functions Assignment

Find the domain and range of the following rational function.

19. Graph of $f(x) = \frac{5}{3}x + 7$.

$$f(x) = \frac{5}{3}x + 7$$

20. Graph of $f(x) = \frac{2x+1}{2} + 3$.

$$f(x) = \frac{(2x+1)}{2} + 3$$