



L9-3 Graphing Reciprocal Functions

- 1] Determine the value of x for which function is not defined

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

- A) $x=-1$
C) $x=2$

- B) $x=1$
D) $x=-2$

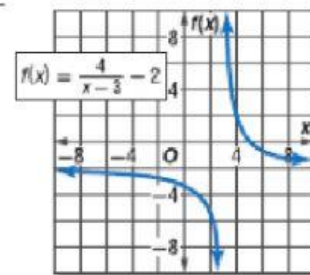
- 2] Determine the value of x for which function is not defined

$$f(x) = \frac{7}{3x+2}$$

- A) $x=-2$
C) $x=7/2$

- B) $x=2$
D) $x=-2/3$

- 3] Identify the asymptotes, domain, and range of function.

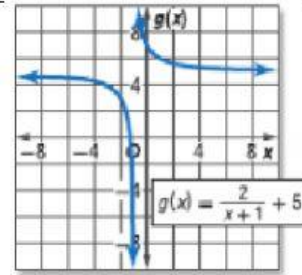


- A) $x=3, f(x)=-2$;
 $D = \{x \mid x \neq 3\}; R = \{f(x) \mid f(x) \neq -2\}$
C) $f(x)=3, x=-2$;
 $D = \{x \mid x \neq 3\}; R = \{f(x) \mid f(x) \neq -2\}$

- B) $x=3, f(x)=-2$;
 $R = \{x \mid x \neq 3\}; D = \{f(x) \mid f(x) \neq -2\}$
D) $x=3, f(x)=-2$;
 $D = \{x \mid x \neq -2\}; R = \{f(x) \mid f(x) \neq 3\}$



4] Identify the asymptotes, domain, and range of function.

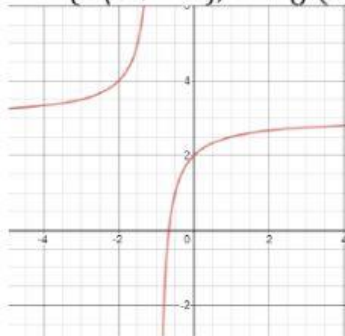


- A) $x=5, g(x)=-1$;
 $D = \{x \mid x \neq -1\}; R = \{g(x) \mid g(x) \neq 5\}$
- C) $x=-1, g(x)=5$;
 $D = \{x \mid x \neq 5\}; R = \{g(x) \mid g(x) \neq -1\}$

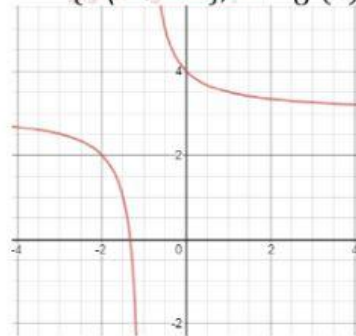
- B) $x=-1, g(x)=5$;
 $D = \{x \mid x \neq -1\}; R = \{g(x) \mid g(x) \neq 5\}$
- D) $x=-1, g(x)=5$;
 $D = \{x \mid x \neq 2\}; R = \{g(x) \mid g(x) \neq 5\}$

5] Graph function. State the domain and range. $f(x) = -\frac{1}{x+1} + 3$

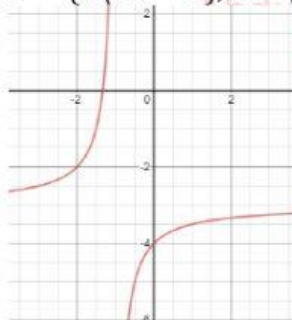
- A) $D = \{x \mid x \neq -1\}; R = \{f(x) \mid f(x) \neq 5\}$



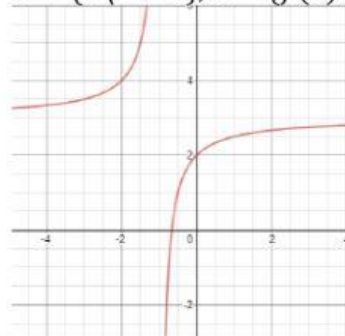
- B) $D = \{x \mid x \neq -1\}; R = \{f(x) \mid f(x) \neq 5\}$



- C) $D = \{x \mid x \neq -1\}; R = \{f(x) \mid f(x) \neq 5\}$



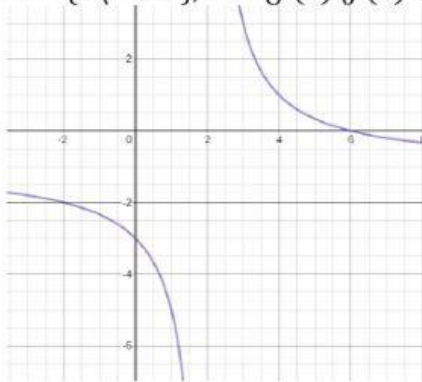
- D) $D = \{x \mid x \neq 1\}; R = \{f(x) \mid f(x) \neq 5\}$



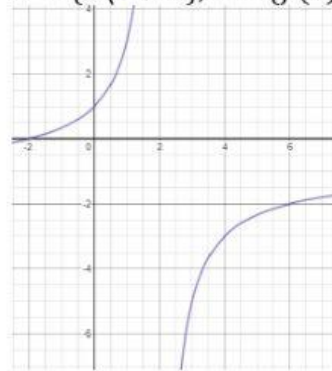


6] Graph function. State the domain and range. $f(x) = \frac{-4}{x-2} - 1$

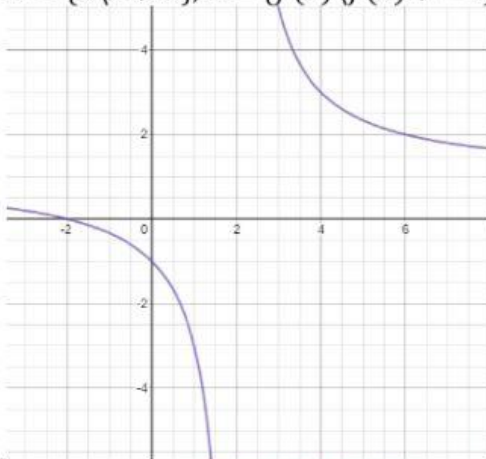
A) $D = \{x \mid x \neq 2\}; R = \{f(x) \mid f(x) \neq -1\}$



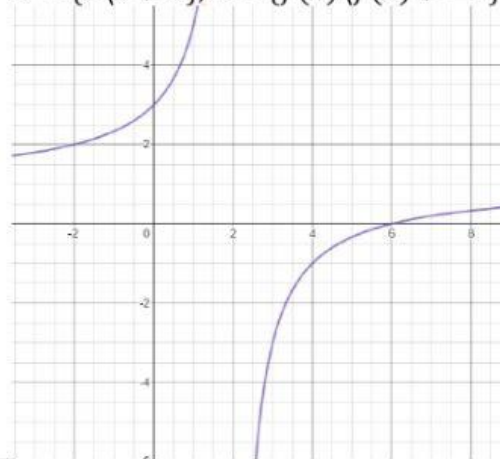
B) $D = \{x \mid x \neq 2\}; R = \{f(x) \mid f(x) \neq -1\}$



C) $D = \{x \mid x \neq 2\}; R = \{f(x) \mid f(x) \neq -1\}$

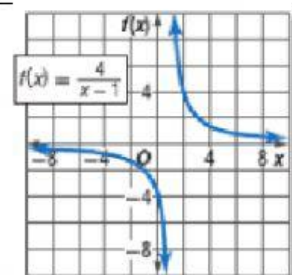


D) $D = \{x \mid x \neq 2\}; R = \{f(x) \mid f(x) \neq -1\}$



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7] Identify the asymptotes, domain, and range of function.



A) $x=0, f(x)=1;$
 $D = \{x \mid x \neq 0\}; R = \{f(x) \mid f(x) \neq 1\}$

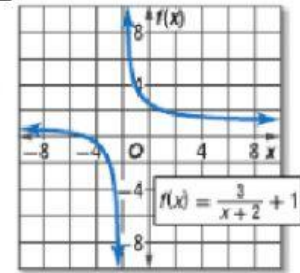
B) $x=0, f(x)=1;$
 $D = \{x \mid x \neq 1\}; R = \{f(x) \mid f(x) \neq 0\}$

C) $x=1, f(x)=0;$
 $D = \{x \mid x \neq 0\}; R = \{f(x) \mid f(x) \neq 1\}$

D) $x=1, f(x)=0;$
 $D = \{x \mid x \neq 1\}; R = \{f(x) \mid f(x) \neq 0\}$



8] Identify the asymptotes, domain, and range of function.



A) $x=2$, $f(x)=1$;

$$D = \{x \mid x \neq -2\}; R = \{f(x) \mid f(x) \neq 1\}$$

C) $x=-2$, $f(x)=1$;

$$D = \{x \mid x \neq -2\}; R = \{f(x) \mid f(x) \neq 1\}$$

B) $x=-2$, $f(x)=-1$;

$$D = \{x \mid x \neq -2\}; R = \{f(x) \mid f(x) \neq 1\}$$

D) $x=-2$, $f(x)=1$;

$$D = \{x \mid x \neq 1\}; R = \{f(x) \mid f(x) \neq -2\}$$

عبدالقادر عمرو

0566028336

Abdulkader amro

0566028336