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
B) X=1
C) X=2
D) X=-2

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

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

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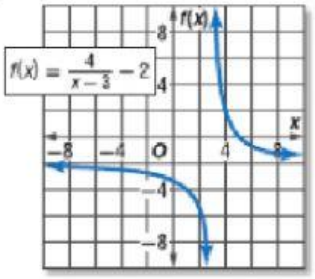
A) X=-2
B) X=2
C) X=7/2
D) X=-2/3

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



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

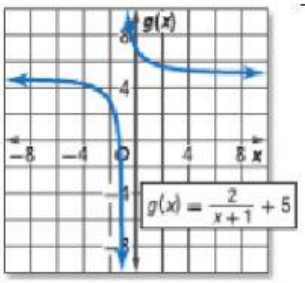
B) X=3 , f(x)=-2;
$R = \{x \backslash x \neq 3\}; D = \{f(x) \backslash f(x) \neq -2\}$

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

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

LIVEWORKSHEETS

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



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

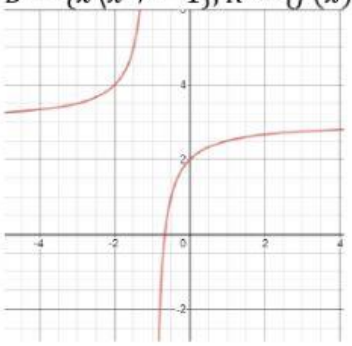
B) X=-1 , g(x)=5;
$D = \{x \backslash x \neq -1\}; R = \{g(x) \backslash g(x) \neq 5\}$

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

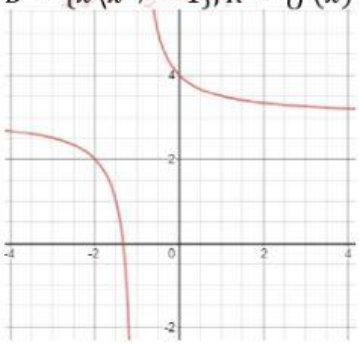
D) X=-1 , g(x)=5;
$D = \{x \backslash x \neq 2\}; R = \{g(x) \backslash g(x) \neq 5\}$

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

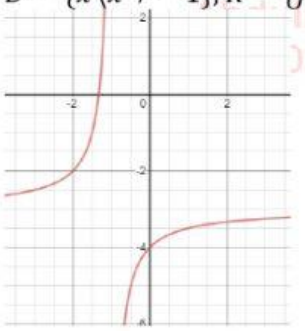
A) $D = \{x \backslash x \neq -1\}; R = \{f(x) \backslash f(x) \neq 5\}$



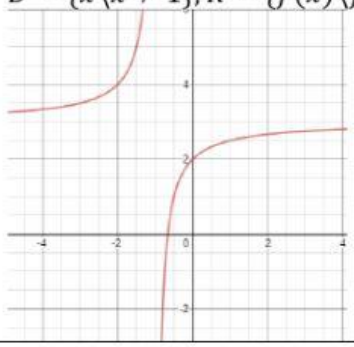
B) $D = \{x \backslash x \neq -1\}; R = \{f(x) \backslash f(x) \neq 5\}$



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



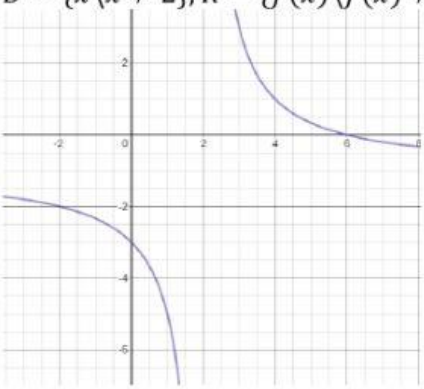
D) $D = \{x \backslash x \neq 1\}; R = \{f(x) \backslash f(x) \neq 5\}$



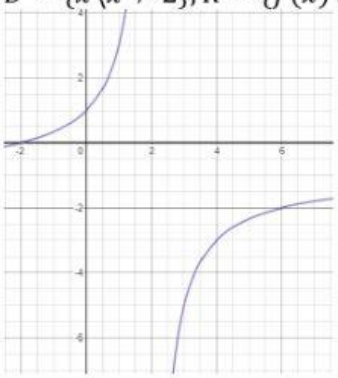
LIVEWORKSHEETS

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

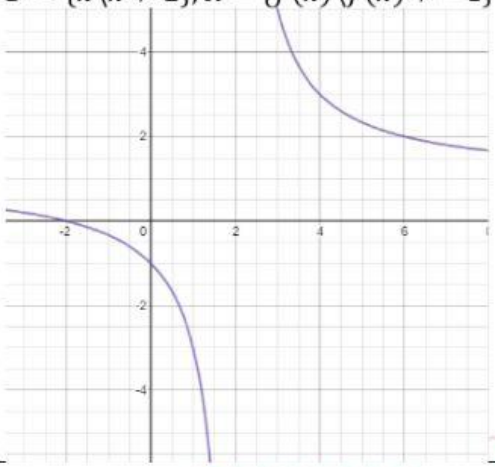
A) $D = \{x \backslash x \neq 2\}; R = \{f(x) \backslash f(x) \neq -1\}$



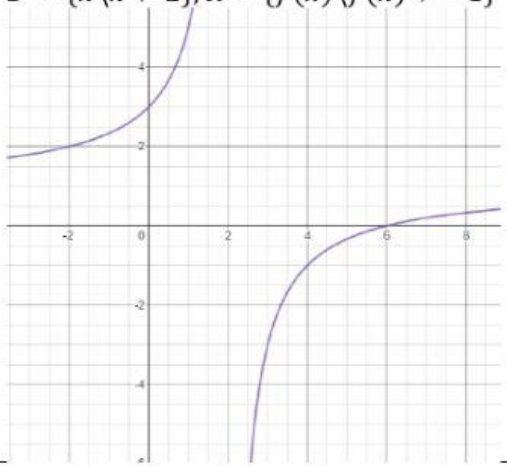
B) $D = \{x \backslash x \neq 2\}; R = \{f(x) \backslash f(x) \neq -1\}$



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



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



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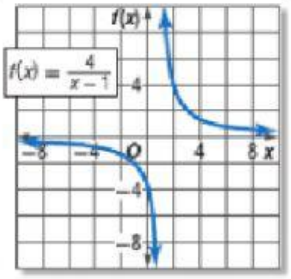
7] Identify the asymptotes, domain, and range of function.



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

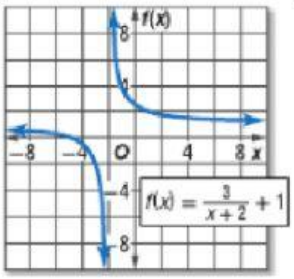
B) X=0 , f(x)=1;
$D = \{x \backslash x \neq 1\}; R = \{f(x) \backslash f(x) \neq 0\}$

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

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

LIVEWORKSHEETS

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



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

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

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

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

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