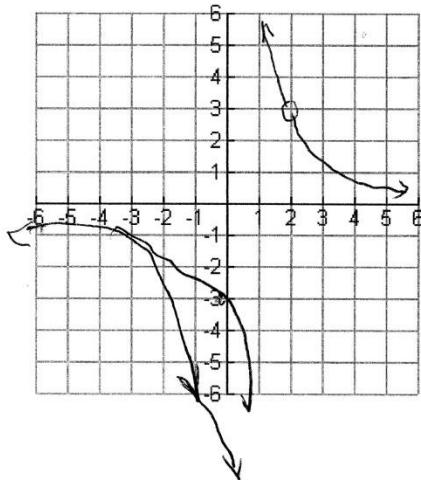


2-7-14

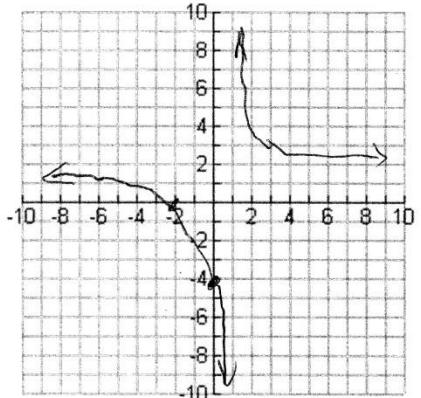
If there is no answer to the blank on this worksheet, write "none".

1. Use $f(x) = \frac{3x - 6}{x^2 - 3x + 2}$ to find the following: Accurately graph the function.

Domain $x \in \text{Ran but } x \neq 2, x \neq 1$ Range $y \neq 0$ x-intercept(s) Noney-intercept (0, -3)horizontal asymptote $y = 0$ vertical asymptote(s) $x = 1$ hole in the graph at $x =$ 2

2. Use $f(x) = \frac{2x + 4}{x - 1}$ to find the following

Accurately graph the function.

Domain $x \in \text{RanS } x \neq 1$ Range $y \neq 2$ x-intercept(s) (-2, 0)y-intercept (0, -4)horizontal asymptote $y = 2$ vertical asymptote(s) $x = 1$ hole in the graph at $x =$ None

Key

3. Use $f(x) = 2x^{-1}$ to find the following:

Domain $x \in \mathbb{R} \quad x \neq 0$

Range $y \neq 0 \quad y \in \mathbb{R}$

x-intercept(s) None

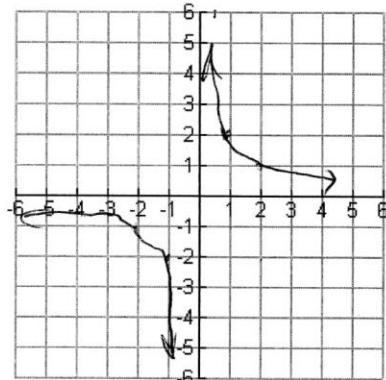
y-intercept None

horizontal asymptote $y = 0$

vertical asymptote(s) $x = 0$

hole in the graph at $x =$ None

Accurately graph the function.



4. Use $f(x) = -3x^{-1}$ to find the following:

Domain $y \in \mathbb{R} \quad x \neq 0$

Range $y \in \mathbb{R} \quad y \neq 0$

x-intercept(s) None

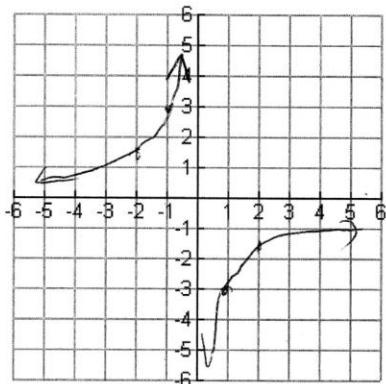
y-intercept None

horizontal asymptote $y = 0$

vertical asymptote(s) $x = 0$

hole in the graph at $x =$ None

Accurately graph the function.



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