Worksheet 8.4 Practice   Algebra 2   Name_____

Period _____

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

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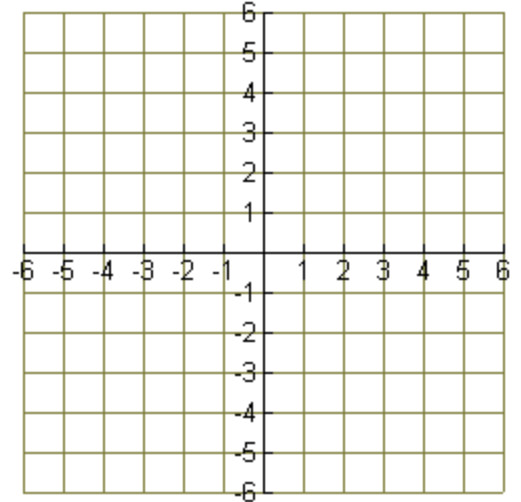
Domain _____

Range _____

x-intercept(s) _____

y-intercept _____

horizontal asymptote _____

vertical asymptote(s) _____

hole in the graph at x = _____

2. Use $f(x) = \dfrac{2x+4}{x-1}$ to find the following   Accurately graph the function.
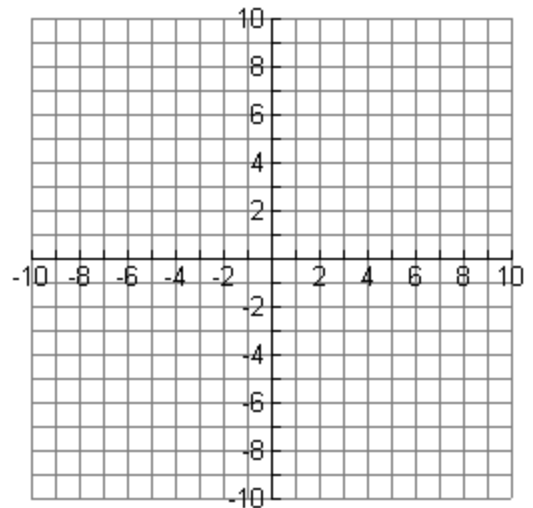
Domain _____

Range _____

x-intercept(s) _____

y-intercept _____

horizontal asymptote _____

vertical asymptote(s) _____

hole in the graph at x = _____

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

Domain _____

Range _____

x-intercept(s) _____
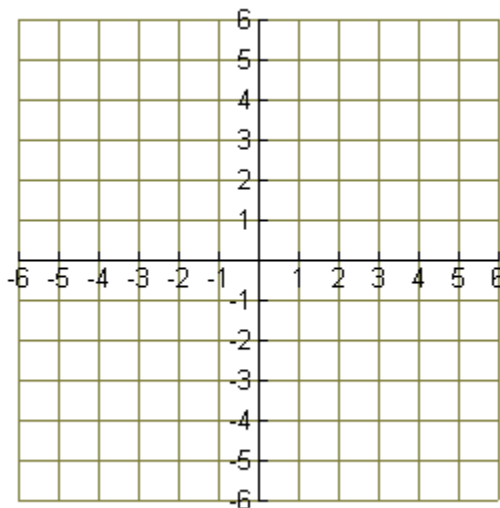
y-intercept _____

horizontal asymptote _____

vertical asymptote(s) _____

hole in the graph at x = _____

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

Domain _____

Range _____

x-intercept(s) _____

y-intercept _____

horizontal asymptote _____

vertical asymptote(s) _____

hole in the graph at x = _____