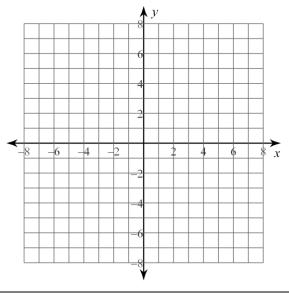
Learning Target: I can sketch a reasonable graph of a rational equations without removeable discontinuities.

Directions: Follow along with the video to graph the vertical and horizontal asymptotes. Graph the x-intercepts and some helpful points, then sketch the graph.

Rate the helpfulness of the video on 0 (no help at all) to 4 (very helpful): _____ How can it help more?

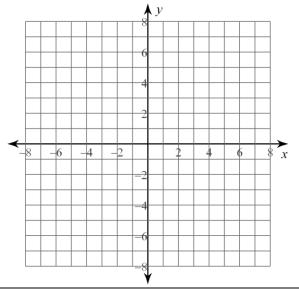
1.

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



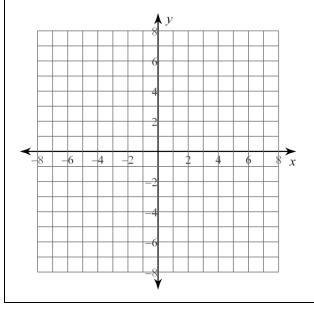
2.

$$f(x) = -\frac{2}{x^2 - x - 6}$$



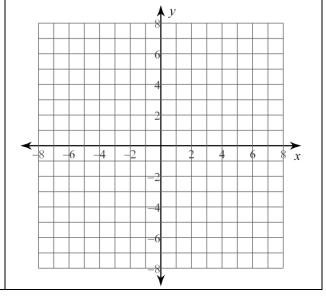
3

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

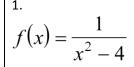


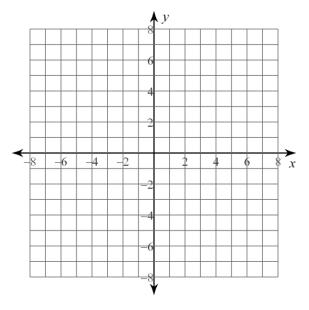
4

$$f(x) = \frac{-x^2 + 16}{x^2 - 9}$$

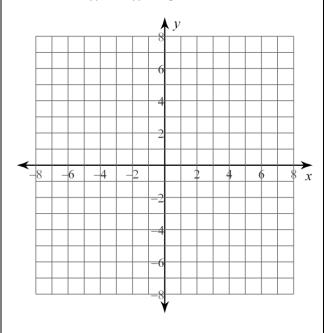


Graph the vertical and horizontal asymptotes, x-intercepts(s), some helpful points and sketch the graph. State the domain and points of discontinuity.

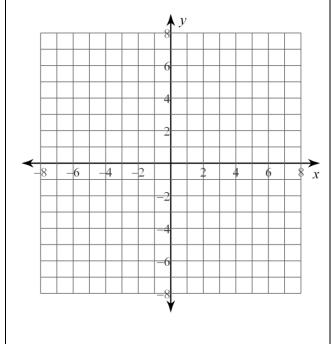




$$f(x) = -\frac{3}{x^2 - x - 6}$$



$$f(x) = \frac{x^2 - x}{2x^2 - 18}$$



$$f(x) = \frac{-x^2 - 2x + 8}{x^2 - x - 6}$$

