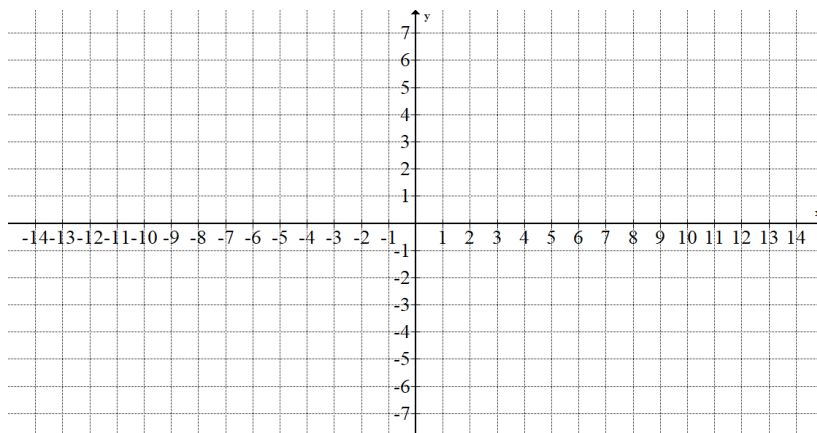
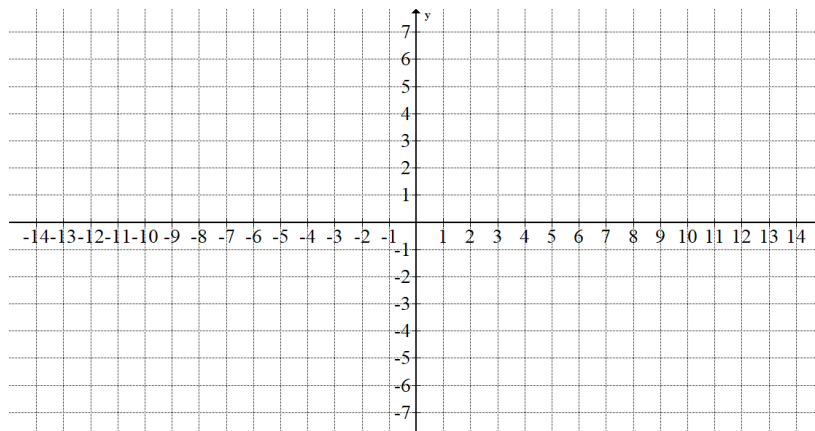


Identify the holes, vertical asymptotes, x-intercepts, y-intercept, horizontal asymptotes, slant asymptote, and domain of each. Then sketch the graph.

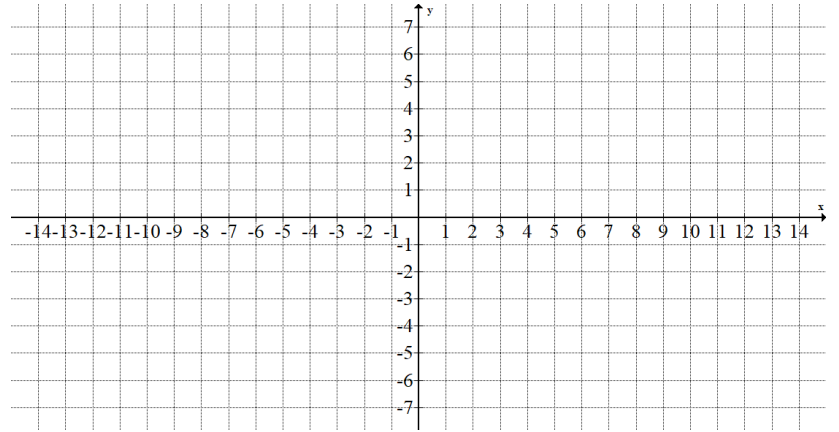
1. $f(x) = \frac{x^2-9}{4x^2-16}$



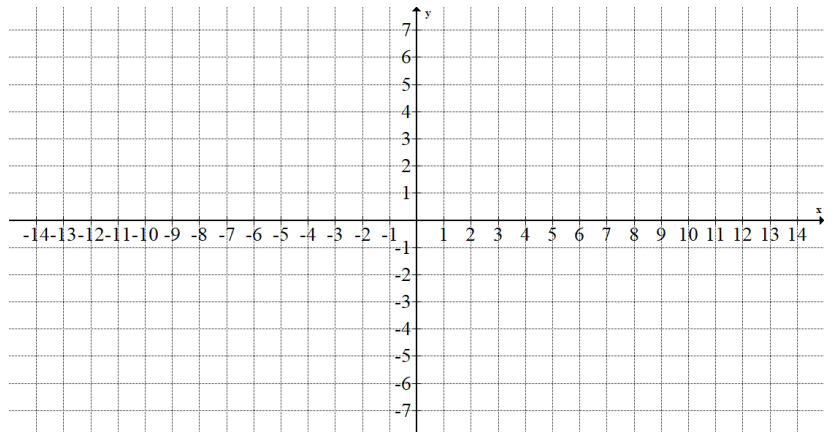
2. $f(x) = \frac{x^3-2x^2-3x}{3x^2-3x}$



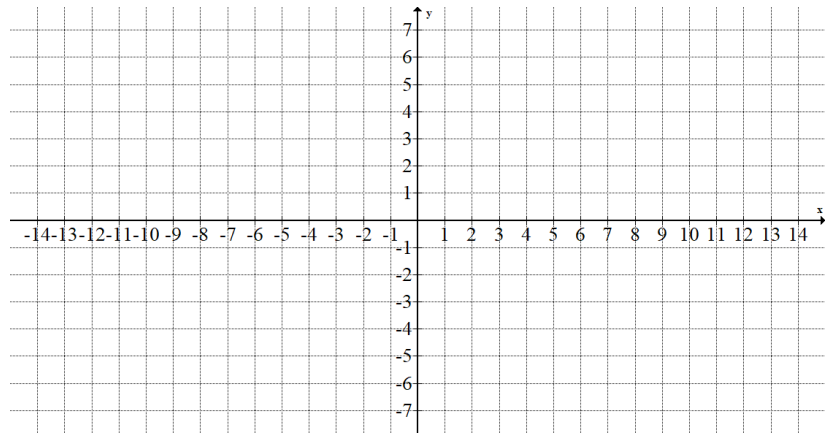
3. $f(x) = \frac{4x-8}{x^2-4}$



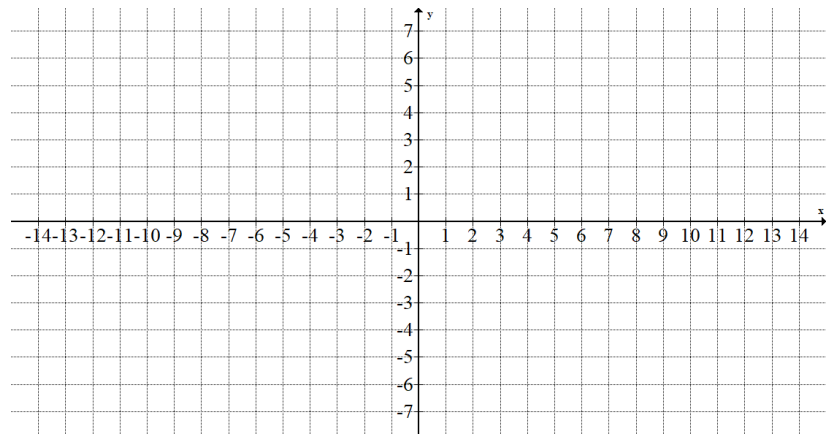
4. $f(x) = \frac{x+1}{x-1}$



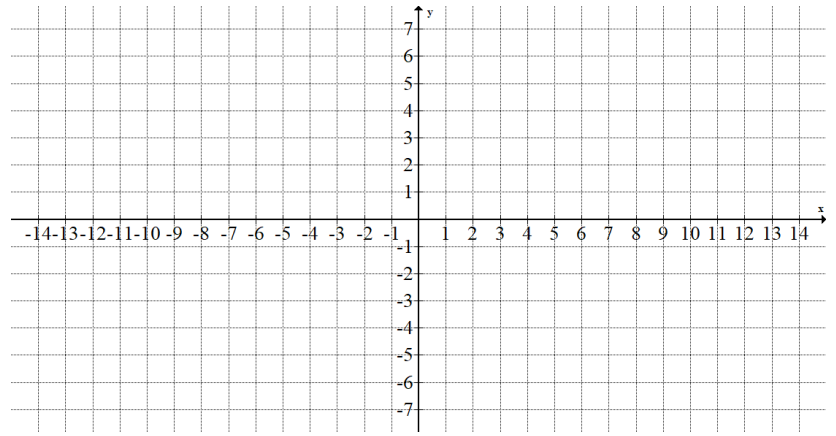
5. $f(x) = \frac{x^3 - 4x}{4x^2 + 4x}$



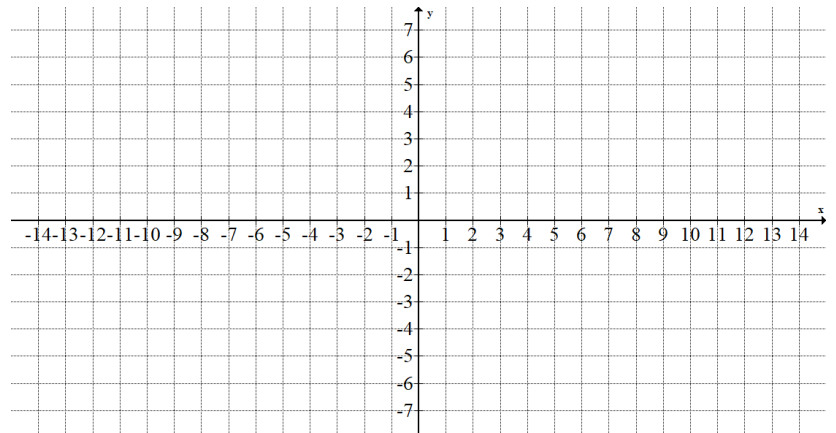
6. $f(x) = \frac{-x+2}{x+2}$



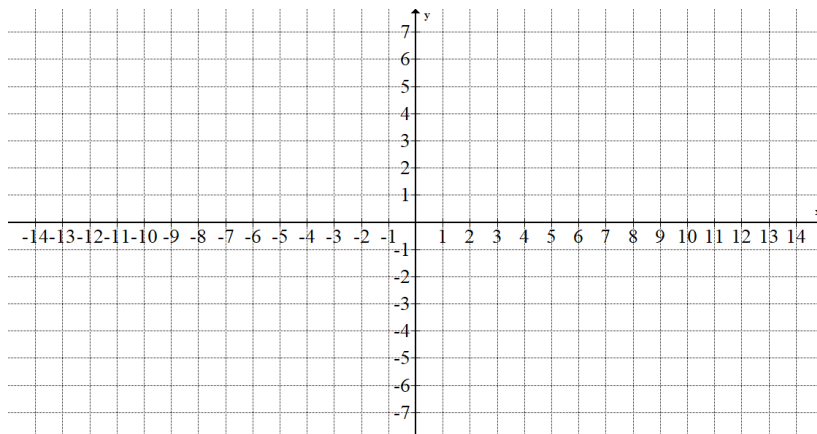
$$7. f(x) = \frac{x^2 - 2x - 3}{-4x - 8}$$



$$8. f(x) = \frac{x^3 - x^2 - 2x}{-3x^2 + 9x}$$



$$9. f(x) = \frac{x+3}{x^2-x-6}$$



$$10. f(x) = \frac{x^2+5x+6}{-4x-16}$$

