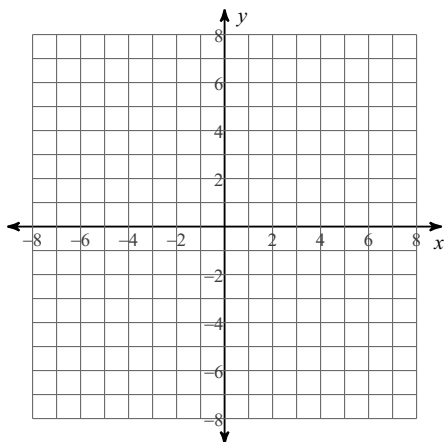


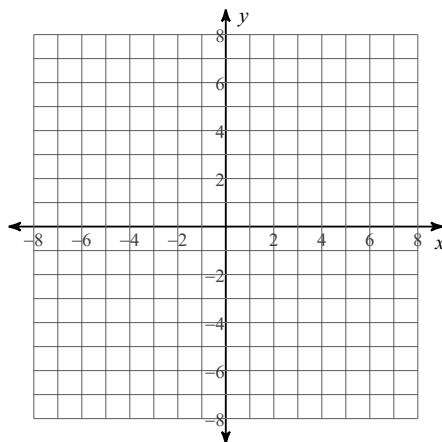
Extra Test Review 2

Graph each function.

1) $f(x) = -\frac{2}{x+2} + 1$

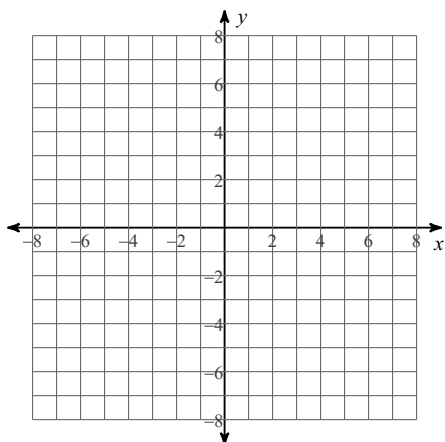


2) $f(x) = \frac{4}{x-2}$

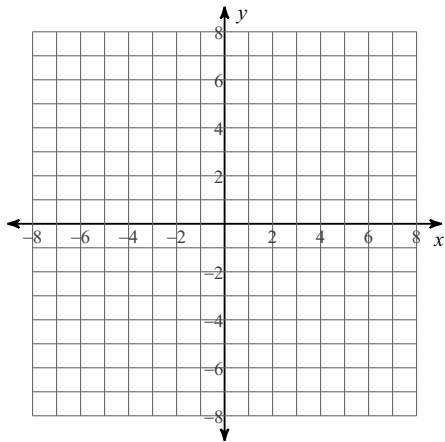


Identify the holes, vertical asymptotes, x-intercepts, horizontal asymptote, and domain of each. Then sketch the graph.

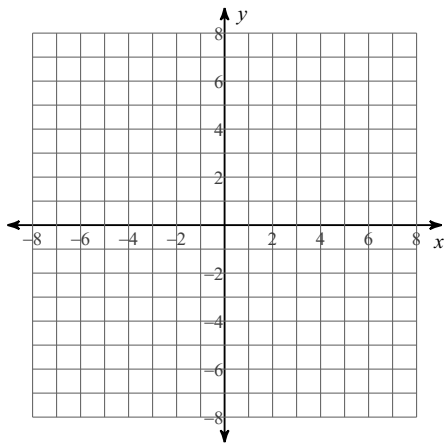
3) $f(x) = \frac{x^2 - 4x + 3}{-4x^2 + 8x + 12}$



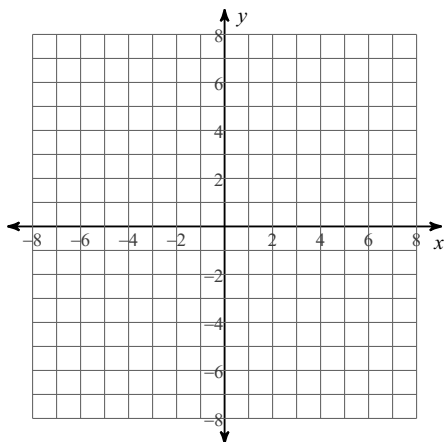
$$4) f(x) = \frac{x^2 - 4x}{x^2 + x - 2}$$



$$5) f(x) = \frac{3}{x^2 - x - 6}$$



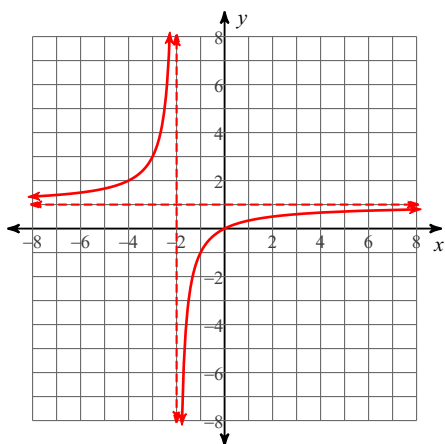
$$6) f(x) = \frac{x^2 - 2x - 3}{-3x}$$



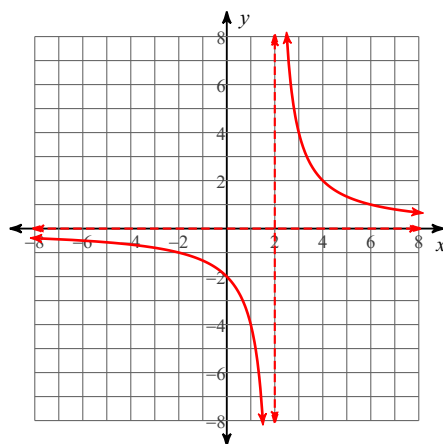
Extra Test Review 2

Graph each function.

1) $f(x) = -\frac{2}{x+2} + 1$

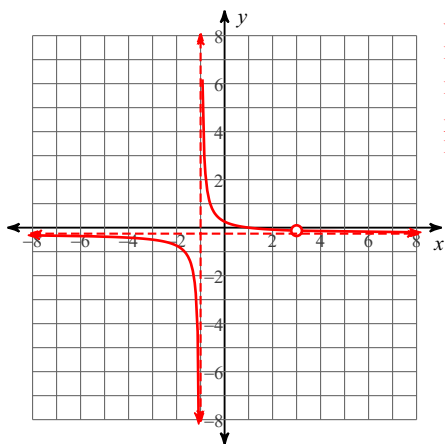


2) $f(x) = \frac{4}{x-2}$



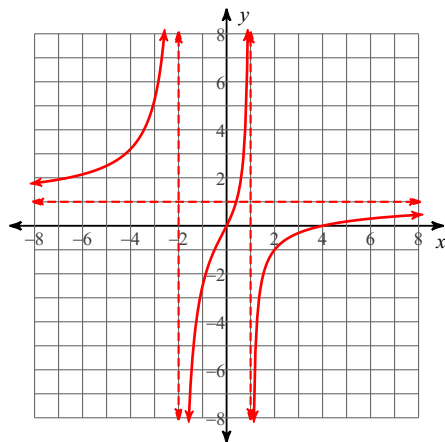
Identify the holes, vertical asymptotes, x-intercepts, horizontal asymptote, and domain of each. Then sketch the graph.

3) $f(x) = \frac{x^2 - 4x + 3}{-4x^2 + 8x + 12}$



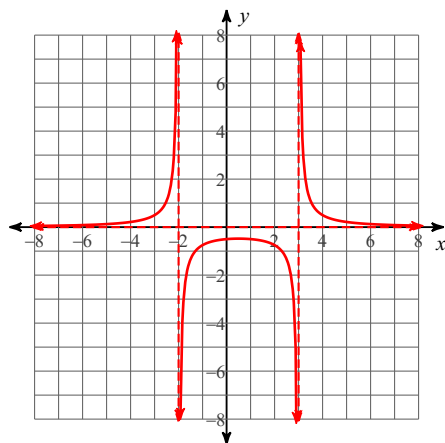
Vertical Asym.: $x = -1$
 Holes: $x = 3$
 Horz. Asym.: $y = -\frac{1}{4}$
 X-intercepts: 1
 Domain:
 All reals except $-1, 3$

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



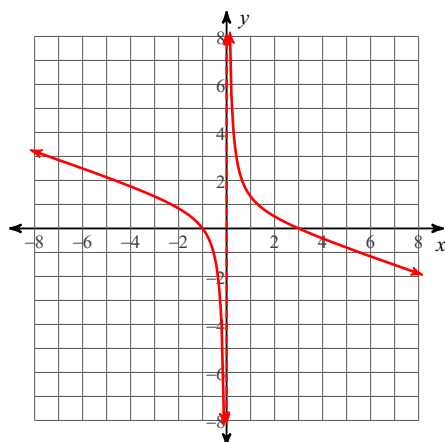
Vertical Asym.: $x = 1, x = -2$
 Holes: None
 Horz. Asym.: $y = 1$
 X-intercepts: 0, 4
 Domain:
 All reals except 1, -2

$$5) f(x) = \frac{3}{x^2 - x - 6}$$



Vertical Asym.: $x = 3, x = -2$
 Holes: None
 Horz. Asym.: $y = 0$
 X-intercepts: None
 Domain:
 All reals except 3, -2

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



Vertical Asym.: $x = 0$
 Holes: None
 Horz. Asym.: None
 X-intercepts: -1, 3
 Domain:
 All reals except 0