1. $y = \frac{x^2+3x-10}{x^2-4}$

$= \frac{(x+5)(x-2)}{(x+2)(x-2)}$

$= \frac{x+5}{x+2}$

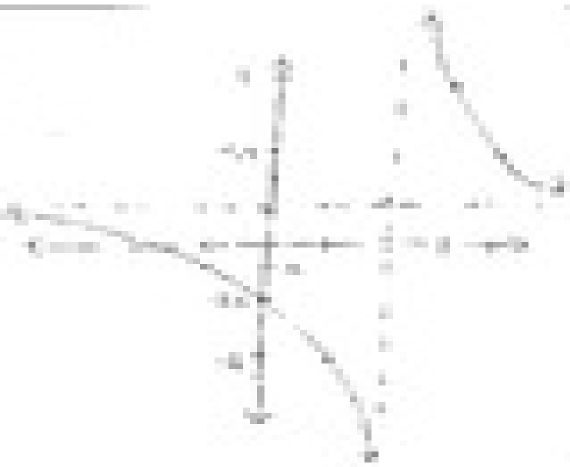
Domain: $(-\infty,-2)\cup(-2,2)\cup(2,\infty)$

Hole: $(2, \frac{7}{4})$

VA: $x = -2$

HA: $y = 1$

OA: none



2. $f(x) = \frac{2x-1}{x+3}$

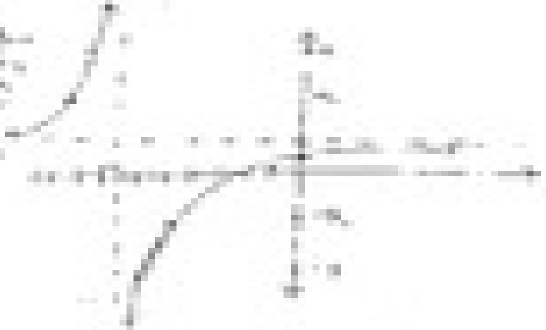
Domain: $(-\infty,-3)\cup(-3,\infty)$

Hole: none

VA: $x = -3$

HA: $y = 2$

OA: none



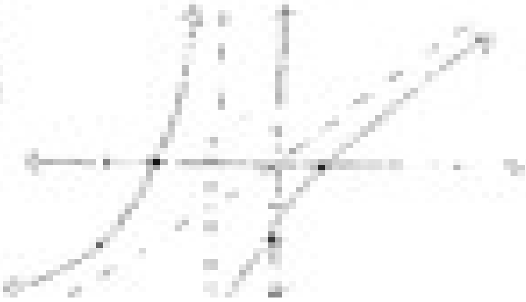
3. $y = \frac{x^2+x-6}{x+1} = \frac{(x+3)(x-2)}{x+1}$

Domain: $(-\infty,-1)\cup(-1,\infty)$

Hole: none

VA: $x = -1$

HA: none

OA: $y = x$