You have to use long division!

10. $f(x)=\frac{5}{x+3}$

Vert: _____ Hor: _____

x-Int.: _____ y-int: _____

holes: _____ Slant: _____

11. $f(x)=\frac{1-5x}{1+2x}$

Vert: _____ Hor: _____

x-Int.: _____ y-int: _____

holes: _____ Slant: _____

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

Vert: _____ Hor: _____

x-Int.: _____ y-int: _____

holes: _____ Slant: _____

13. $f(x)=\frac{2x^2-11x+12}{x+4}$

Vert: $x=-4$ Hor: none

x-Int.: $(\frac{3}{2},0)(4,0)$ y-int: $(0,3)$

holes: none Slant: $y=2x-19$

$-4\,|\,2\ \ -11\ \ 12$

$\quad\ \ -8\ \ 76$

$\quad 2\ \ -19\ \ |\ 88$

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

Vert: _____ Hor: _____

x-Int.: _____ y-int: _____

holes: _____ Slant: _____

15. $f(x)=\frac{x+4}{4x^2+4x-48}$

Vert: $x=3$ Hor: $y=0$

x-Int.: none y-int: $(0,-\frac{1}{12})$

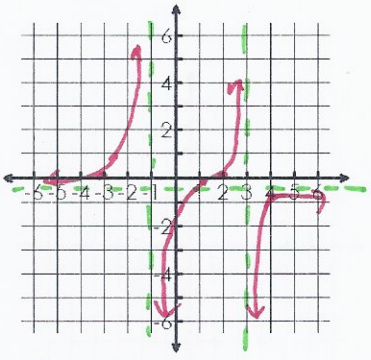
holes: $(-4,\frac{1}{28})$ Slant: none

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

Vert: $x=3\ x=-1$ Hor: $y=-\frac{1}{3}$

x-Int.: $(-3,0)(2,0)$ y-int: none

holes: $(0,-\frac{2}{3})$ Slant: none



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

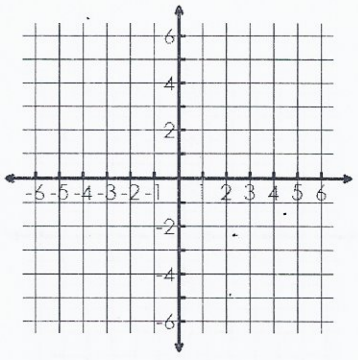
$$\frac{(x+3)(x-2)}{-3(x-3)(x+1)}$$

17. $f(x)=\frac{-4}{x-3}$

Vert: _____ Hor: _____

x-Int.: _____ y-int: _____

holes: _____ Slant: _____



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

Vert: _____ Hor: _____

x-Int.: _____ y-int: _____

holes: _____ Slant: _____