Rational Function Proper Form

$$F(x) = \frac{P(x)}{Q(X)} + R(X)$$

When the order of P(X) is smaller than that of Q(X)

P(X)/Q(X) is proper form.

Ex. $$Y = \frac{X^3 - X^2 - 4X + 4}{X^2 - 16}$$

$$= \frac{12X - 12}{X^2 - 16} + X - 1$$

		X	-1		
X^2	-16	X^3	-X2	-4X	4
		X^3	0	,-16X	
			$-X^2$	12X	4
			$-X^2$	0	16
				12X	-12

Proper rational function -> 0 when X -> infinity

Asymptote - dictated by R(X)