	CS 171 HW2
1.	a) = N_EZ+ \(\tau > N_F\) \(\frac{1}{2P(n)} \) \(\f
	b) $\exists N_{+} \in Z^{+} \forall n > N_{+} + f(n) \left(\frac{1}{n^{c}B(xn)}\right) h(n) = f(n) \cdot p(n) \left(\frac{1}{R^{c}B(xn)}\right)$ $p(n) \in \mathbb{N}$
	C) Polynomal  in 100 is Polynomal as n-100 < 1 is impossible
	d) Negligible  . For large enough n. n° 1.01°, so ton (Prin)</td
	e) $Polynom(a)$ $2^{-(109_2 \Pi)^2} = \frac{1}{D^2} > \frac{1}{D^3}$
V	f) Megirgible  - Pominant term e-10gn is negligible since n°< e 10g,n for large enough n hish means too.n < n°
22	P. (a) When $a=0$ , it is not involutible so Rec leads to error, losing the message.  P. $[a=0]=\frac{1}{23}$ .
	b) $C_1 = 0.m_1 + b \mod 23$ $C_2 = 0.(m_1 - m_2) \mod 23$ $C_2 = 0.m_2 + b \mod 23$ $C_3 = 0.m_2 + b \mod 23$ $C_4 = 0.m_3 + b \mod 23$
	-: Unique solution for a and thus b
	The above is some for $M_{\perp}, M_{\perp}$ .  Pr[Enc(k,m)=C, $\Lambda$ Enc(k,m)=C, $\Lambda$ =Pr[Enc(k,m)=C, $\Lambda$ =C(k,m)=C, $\Lambda$ =C, $\Lambda$