	HM3
-	Question 2.
	Question 2. a) $f(y;p) = p^y (1-p)^{-y}$ $log(f(y;p) = log(p^y (1-p)^{-y})$
	l(p) = 5 log (f (yij p))
	= 2 log (p 5i) + log (1-p)-yi
	= = yilog(p) to (1-yi) log (1-p)
	= nx[yilog(p)+(1-yin)log(1-p)]
	$b) f(h;p) = (r+k-1)(1-p)^{r}ph$ $log(f(h;p)) = log(r+k-1)(1-p)^{r}ph$
	llp) = E, log (f (hi;p))
	= Elog (Thirt) + log(1-P) P
	= q + rolog (1-p) + holog(p)
	= is log (rthi-) + nx [milog(p)+rlog(1-p)]

