Project example:

Part (a):
$(a + b)^1 = a + b$
$(a + b)^2 = a^2 + 2ab + b^2$
$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
$(a + b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$

Part (b) Show that the identity: $\frac{n}{k} = \frac{n-1}{k} + \frac{n-1}{k-1}$ is true.

Pascal Triangle (Part c)

$n = 0$					1						
$n = 1$					1		1				
$n = 2$				1		2		1			
$n = 3$			1		3		3		1		
$n = 4$		1		4		6		4		1	
$n = 5$	1		5		10		10		5		1
$n = 6$	1		6	15		20		15	6		1
	0		1	2		3		4	5		6