	Name:				
		Pid:			
Elements of \mathbb{Z}^2 are colored in black and white, $(x_1, y_2), (x_2, y_1), (x_2, y_2)$ are colored in the same	show that the color.	here are $x_1, x_2, y_1, y_2, y_3, y_4, y_5$	$y_2 \in \mathbb{Z}$ such that	(x_1, y_1)	

2. Prove the following equality:

$$\sum_{k=0}^{m} \binom{n+k}{k} = \binom{n+m+1}{n}.$$

 mula for: $\sum_{i=0}^{n} i^3$.		

rent relation for	 		