1. (4) Write out all the terms in these sums

$$\sum_{i=1}^{5} y_i =$$

$$\sum_{j=2}^{6} a_j b_{j-1} =$$

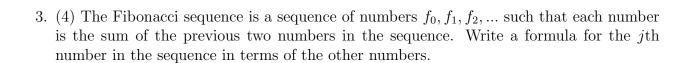
$$\sum_{j=0}^{4} (-2)^j =$$

2. (4) Write these in summation notation

$$a_1 + b_2 + a_2 + b_4 + a_3 + b_6 =$$

$$z_1 + z_2^2 + z_3^3 + z_4^4 =$$

$$b_0 x_{i0} + b_1 x_{i1} + b_2 x_{i2} =$$



4. (4) If I told you that $f_0 = 0$ and $f_1 = 1$, what are f_2 and f_3 ?

5. (4) Explain why $\sum_{k=1}^{n} x = nx$.