Name:

QUIZ 8 – MATH IB HL

1. (10%) Write down the Pascal triangle for n = 0 to n = 5

2. (25%) Find the independent term in the binomial $\left(x+\frac{1}{x^3}\right)^{12}$

3. (25%) The coefficient of x^{-1} in the expansion of $\left(x\,a-\frac{2}{x}\right)^{5}$ is -5. Find the possible value(s) of a.

4. (20%) Find the term in x^2 in: $\left(\frac{1}{x} - x\right)^4 (3 - x^2)$

5. (20%) Find the term in x^2 in: $\left(\frac{1}{x} - x\right)^4 (3 - x)^2$