

Name:

QUIZ - MATH GRADE 11 SL

1. (30%) The coefficient of x^2 in the expansion of $\left(x + \frac{2}{a^2x}\right)^6$ is 60. Find the possible values of a .
2. (30%) Given the polynomial $(x-a)^3(x+a)^3$. Given that the coefficient of x^2 is 48. Find the possible values of a . Help: Rewrite before expanding.

3. (40%) Given the binomial $(1 - 2x^2)^8$.
- (10%) Find the third term in its most simplified form
 - (15%) Find the middle term (no need to simplify).
 - (15%) Find the coefficient of the term in x^6 (simplify reasonably)