**Finding Coefficients in Expansions**

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(a) The coefficient of the term in the expansion of is . Given that is positive, find its value.

(b) The coefficient of the term in the expansion of is . Find the value of .

(a) In the expansion of the coefficient of the term is three times the coefficient of the term. Find the value of .

(b) In the expansion of the coefficient of the term is times the coefficient of the term. Find the two possible values of .

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