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# Ss Regalia

**G Psacharopoulos**



**Ss Regalia:**

## The Enigmatic Realm of **Ss Regalia**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Ss Regalia** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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shoot free throws until he misses one let  $f$  be the number of shots it takes jeremiah to miss his first free throw assume that the results of each shot are independent

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web two events or behaviors within the system can be seen to be independent if the probability of one of them happening is unaffected by changes made to the other in shorthand code independent is when  $p(a|b) = p(a)$  in human words a is going to do whatever it does regardless of what b does

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web when attempting to catch the ball the probability gary is successful is  $\frac{3}{4}$  during the game gary attempts two catches find the probability gary is successful with both catches  $\frac{2}{2}$  helen is taking part in a quiz on tv the probability she answers a question correctly is  $\frac{4}{5}$  helen is asked two questions

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$a \times b \times 2 \ a \ b \times a \ b \times a \times b \times 2 \ a \ b \times a \ b \times a$

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web algebra formulas for class 8 here is the list of class 8 algebra formula  $a^2 - b^2 = (a + b)(a - b)$   $a^2 + 2ab + b^2 = (a + b)^2$   $a^2 - 2ab + b^2 = (a - b)^2$   $(a + b)^2 = a^2 + 2ab + b^2$   $(a - b)^2 = a^2 - 2ab + b^2$   $(a + b)(a - b) = a^2 - b^2$   $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$   $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$   $(a + b)^2 - (a - b)^2 = 4ab$   $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$   $(a + b)^3 - (a - b)^3 = 2(a^2 + ab + b^2)(a + b)$   $(a + b)^3 + (a - b)^3 = 2(a^2 - ab + b^2)(a + b)$   $(a + b)^4 - (a - b)^4 = 4ab(a^2 + b^2)(a + b)$   $(a + b)^4 + (a - b)^4 = 2(a^2 + b^2)(a^2 - 2ab + b^2)$   $(a + b)^5 - (a - b)^5 = 2(a^4 + a^3b + a^2b^2 + ab^3 + b^4)(a + b)$   $(a + b)^5 + (a - b)^5 = 2(a^4 - a^3b + a^2b^2 - ab^3 + b^4)(a + b)$   $(a + b)^6 - (a - b)^6 = 2(a^5 + a^4b + a^3b^2 + a^2b^3 + ab^4 + b^5)(a + b)$   $(a + b)^6 + (a - b)^6 = 2(a^5 - a^4b + a^3b^2 - a^2b^3 + ab^4 - b^5)(a + b)$   $(a + b)^7 - (a - b)^7 = 2(a^6 + a^5b + a^4b^2 + a^3b^3 + a^2b^4 + ab^5 + b^6)(a + b)$   $(a + b)^7 + (a - b)^7 = 2(a^6 - a^5b + a^4b^2 - a^3b^3 + a^2b^4 - ab^5 + b^6)(a + b)$   $(a + b)^8 - (a - b)^8 = 2(a^7 + a^6b + a^5b^2 + a^4b^3 + a^3b^4 + a^2b^5 + ab^6 + b^7)(a + b)$   $(a + b)^8 + (a - b)^8 = 2(a^7 - a^6b + a^5b^2 - a^4b^3 + a^3b^4 - a^2b^5 + ab^6 - b^7)(a + b)$   $(a + b)^9 - (a - b)^9 = 2(a^8 + a^7b + a^6b^2 + a^5b^3 + a^4b^4 + a^3b^5 + a^2b^6 + ab^7 + b^8)(a + b)$   $(a + b)^9 + (a - b)^9 = 2(a^8 - a^7b + a^6b^2 - a^5b^3 + a^4b^4 - a^3b^5 + a^2b^6 - ab^7 + b^8)(a + b)$   $(a + b)^{10} - (a - b)^{10} = 2(a^9 + a^8b + a^7b^2 + a^6b^3 + a^5b^4 + a^4b^5 + a^3b^6 + a^2b^7 + ab^8 + b^9)(a + b)$   $(a + b)^{10} + (a - b)^{10} = 2(a^9 - a^8b + a^7b^2 - a^6b^3 + a^5b^4 - a^4b^5 + a^3b^6 - a^2b^7 + ab^8 - b^9)(a + b)$   $(a + b)^{11} - (a - b)^{11} = 2(a^{10} + a^9b + a^8b^2 + a^7b^3 + a^6b^4 + a^5b^5 + a^4b^6 + a^3b^7 + a^2b^8 + ab^9 + b^{10})(a + b)$   $(a + b)^{11} + (a - b)^{11} = 2(a^{10} - a^9b + a^8b^2 - a^7b^3 + a^6b^4 - a^5b^5 + a^4b^6 - a^3b^7 + a^2b^8 - ab^9 + b^{10})(a + b)$   $(a + b)^{12} - (a - b)^{12} = 2(a^{11} + a^{10}b + a^9b^2 + a^8b^3 + a^7b^4 + a^6b^5 + a^5b^6 + a^4b^7 + a^3b^8 + a^2b^9 + ab^{10} + b^{11})(a + b)$   $(a + b)^{12} + (a - b)^{12} = 2(a^{11} - a^{10}b + a^9b^2 - a^8b^3 + a^7b^4 - a^6b^5 + a^5b^6 - a^4b^7 + a^3b^8 - a^2b^9 + ab^{10} - b^{11})(a + b)$   $(a + b)^{13} - (a - b)^{13} = 2(a^{12} + a^{11}b + a^{10}b^2 + a^9b^3 + a^8b^4 + a^7b^5 + a^6b^6 + a^5b^7 + a^4b^8 + a^3b^9 + a^2b^{10} + ab^{11} + b^{12})(a + b)$   $(a + b)^{13} + (a - b)^{13} = 2(a^{12} - a^{11}b + a^{10}b^2 - a^9b^3 + a^8b^4 - a^7b^5 + a^6b^6 - a^5b^7 + a^4b^8 - a^3b^9 + a^2b^{10} - ab^{11} + b^{12})(a + b)$   $(a + b)^{14} - (a - b)^{14} = 2(a^{13} + a^{12}b + a^{11}b^2 + a^{10}b^3 + a^9b^4 + a^8b^5 + a^7b^6 + a^6b^7 + a^5b^8 + a^4b^9 + a^3b^{10} + a^2b^{11} + ab^{12} + b^{13})(a + b)$   $(a + b)^{14} + (a - b)^{14} = 2(a^{13} - a^{12}b + a^{11}b^2 - a^{10}b^3 + a^9b^4 - a^8b^5 + a^7b^6 - a^6b^7 + a^5b^8 - a^4b^9 + a^3b^{10} - a^2b^{11} + ab^{12} - b^{13})(a + b)$   $(a + b)^{15} - (a - b)^{15} = 2(a^{14} + a^{13}b + a^{12}b^2 + a^{11}b^3 + a^{10}b^4 + a^9b^5 + a^8b^6 + a^7b^7 + a^6b^8 + a^5b^9 + a^4b^{10} + a^3b^{11} + a^2b^{12} + ab^{13} + b^{14})(a + b)$   $(a + b)^{15} + (a - b)^{15} = 2(a^{14} - a^{13}b + a^{12}b^2 - a^{11}b^3 + a^{10}b^4 - a^9b^5 + a^8b^6 - a^7b^7 + a^6b^8 - a^5b^9 + a^4b^{10} - a^3b^{11} + a^2b^{12} - ab^{13} + b^{14})(a + b)$   $(a + b)^{16} - (a - b)^{16} = 2(a^{15} + a^{14}b + a^{13}b^2 + a^{12}b^3 + a^{11}b^4 + a^{10}b^5 + a^9b^6 + a^8b^7 + a^7b^8 + a^6b^9 + a^5b^{10} + a^4b^{11} + a^3b^{12} + a^2b^{13} + ab^{14} + b^{15})(a + b)$   $(a + b)^{16} + (a - b)^{16} = 2(a^{15} - a^{14}b + a^{13}b^2 - a^{12}b^3 + a^{11}b^4 - a^{10}b^5 + a^9b^6 - a^8b^7 + a^7b^8 - a^6b^9 + a^5b^{10} - a^4b^{11} + a^3b^{12} - a^2b^{13} + ab^{14} - b^{15})(a + b)$   $(a + b)^{17} - (a - b)^{17} = 2(a^{16} + a^{15}b + a^{14}b^2 + a^{13}b^3 + a^{12}b^4 + a^{11}b^5 + a^{10}b^6 + a^9b^7 + a^8b^8 + a^7b^9 + a^6b^{10} + a^5b^{11} + a^4b^{12} + a^3b^{13} + a^2b^{14} + ab^{15} + b^{16})(a + b)$   $(a + b)^{17} + (a - b)^{17} = 2(a^{16} - a^{15}b + a^{14}b^2 - a^{13}b^3 + a^{12}b^4 - a^{11}b^5 + a^{10}b^6 - a^9b^7 + a^8b^8 - a^7b^9 + a^6b^{10} - a^5b^{11} + a^4b^{12} - a^3b^{13} + a^2b^{14} - ab^{15} + b^{16})(a + b)$   $(a + b)^{18} - (a - b)^{18} = 2(a^{17} + a^{16}b + a^{15}b^2 + a^{14}b^3 + a^{13}b^4 + a^{12}b^5 + a^{11}b^6 + a^{10}b^7 + a^9b^8 + a^8b^9 + a^7b^{10} + a^6b^{11} + a^5b^{12} + a^4b^{13} + a^3b^{14} + a^2b^{15} + ab^{16} + b^{17})(a + b)$   $(a + b)^{18} + (a - b)^{18} = 2(a^{17} - a^{16}b + a^{15}b^2 - a^{14}b^3 + a^{13}b^4 - a^{12}b^5 + a^{11}b^6 - a^{10}b^7 + a^9b^8 - a^8b^9 + a^7b^{10} - a^6b^{11} + a^5b^{12} - a^4b^{13} + a^3b^{14} - a^2b^{15} + ab^{16} - b^{17})(a + b)$   $(a + b)^{19} - (a - b)^{19} = 2(a^{18} + a^{17}b + a^{16}b^2 + a^{15}b^3 + a^{14}b^4 + a^{13}b^5 + a^{12}b^6 + a^{11}b^7 + a^{10}b^8 + a^9b^9 + a^8b^{10} + a^7b^{11} + a^6b^{12} + a^5b^{13} + a^4b^{14} + a^3b^{15} + a^2b^{16} + ab^{17} + b^{18})(a + b)$   $(a + b)^{19} + (a - b)^{19} = 2(a^{18} - a^{17}b + a^{16}b^2 - a^{15}b^3 + a^{14}b^4 - a^{13}b^5 + a^{12}b^6 - a^{11}b^7 + a^{10}b^8 - a^9b^9 + a^8b^{10} - a^7b^{11} + a^6b^{12} - a^5b^{13} + a^4b^{14} - a^3b^{15} + a^2b^{16} - ab^{17} + b^{18})(a + b)$   $(a + b)^{20} - (a - b)^{20} = 2(a^{19} + a^{18}b + a^{17}b^2 + a^{16}b^3 + a^{15}b^4 + a^{14}b^5 + a^{13}b^6 + a^{12}b^7 + a^{11}b^8 + a^{10}b^9 + a^9b^{10} + a^8b^{11} + a^7b^{12} + a^6b^{13} + a^5b^{14} + a^4b^{15} + a^3b^{16} + a^2b^{17} + ab^{18} + b^{19})(a + b)$   $(a + b)^{20} + (a - b)^{20} = 2(a^{19} - a^{18}b + a^{17}b^2 - a^{16}b^3 + a^{15}b^4 - a^{14}b^5 + a^{13}b^6 - a^{12}b^7 + a^{11}b^8 - a^{10}b^9 + a^9b^{10} - a^8b^{11} + a^7b^{12} - a^6b^{13} + a^5b^{14} - a^4b^{15} + a^3b^{16} - a^2b^{17} + ab^{18} - b^{19})(a + b)$   $(a + b)^{21} - (a - b)^{21} = 2(a^{20} + a^{19}b + a^{18}b^2 + a^{17}b^3 + a^{16}b^4 + a^{15}b^5 + a^{14}b^6 + a^{13}b^7 + a^{12}b^8 + a^{11}b^9 + a^{10}b^{10} + a^9b^{11} + a^8b^{12} + a^7b^{13} + a^6b^{14} + a^5b^{15} + a^4b^{16} + a^3b^{17} + a^2b^{18} + ab^{19} + b^{20})(a + b)$   $(a + b)^{21} + (a - b)^{21} = 2(a^{20} - a^{19}b + a^{18}b^2 - a^{17}b^3 + a^{16}b^4 - a^{15}b^5 + a^{14}b^6 - a^{13}b^7 + a^{12}b^8 - a^{11}b^9 + a^{10}b^{10} - a^9b^{11} + a^8b^{12} - a^7b^{13} + a^6b^{14} - a^5b^{15} + a^4b^{16} - a^3b^{17} + a^2b^{18} - ab^{19} + b^{20})(a + b)$   $(a + b)^{22} - (a - b)^{22} = 2(a^{21} + a^{20}b + a^{19}b^2 + a^{18}b^3 + a^{17}b^4 + a^{16}b^5 + a^{15}b^6 + a^{14}b^7 + a^{13}b^8 + a^{12}b^9 + a^{11}b^{10} + a^{10}b^{11} + a^9b^{12} + a^8b^{13} + a^7b^{14} + a^6b^{15} + a^5b^{16} + a^4b^{17} + a^3b^{18} + a^2b^{19} + ab^{20} + b^{21})(a + b)$   $(a + b)^{22} + (a - b)^{22} = 2(a^{21} - a^{20}b + a^{19}b^2 - a^{18}b^3 + a^{17}b^4 - a^{16}b^5 + a^{15}b^6 - a^{14}b^7 + a^{13}b^8 - a^{12}b^9 + a^{11}b^{10} - a^{10}b^{11} + a^9b^{12} - a^8b^{13} + a^7b^{14} - a^6b^{15} + a^5b^{16} - a^4b^{17} + a^3b^{18} - a^2b^{19} + ab^{20} - b^{21})(a + b)$   $(a + b)^{23} - (a - b)^{23} = 2(a^{22} + a^{21}b + a^{20}b^2 + a^{19}b^3 + a^{18}b^4 + a^{17}b^5 + a^{16}b^6 + a^{15}b^7 + a^{14}b^8 + a^{13}b^9 + a^{12}b^{10} + a^{11}b^{11} + a^{10}b^{12} + a^9b^{13} + a^8b^{14} + a^7b^{15} + a^6b^{16} + a^5b^{17} + a^4b^{18} + a^3b^{19} + a^2b^{20} + ab^{21} + b^{22})(a + b)$   $(a + b)^{23} + (a - b)^{23} = 2(a^{22} - a^{21}b + a^{20}b^2 - a^{19}b^3 + a^{18}b^4 - a^{17}b^5 + a^{16}b^6 - a^{15}b^7 + a^{14}b^8 - a^{13}b^9 + a^{12}b^{10} - a^{11}b^{11} + a^{10}b^{12} - a^9b^{13} + a^8b^{14} - a^7b^{15} + a^6b^{16} - a^5b^{17} + a^4b^{18} - a^3b^{19} + a^2b^{20} - ab^{21} + b^{22})(a + b)$   $(a + b)^{24} - (a - b)^{24} = 2(a^{23} + a^{22}b + a^{21}b^2 + a^{20}b^3 + a^{19}b^4 + a^{18}b^5 + a^{17}b^6 + a^{16}b^7 + a^{15}b^8 + a^{14}b^9 + a^{13}b^{10} + a^{12}b^{11} + a^{11}b^{12} + a^{10}b^{13} + a^9b^{14} + a^8b^{15} + a^7b^{16} + a^6b^{17} + a^5b^{18} + a^4b^{19} + a^3b^{20} + a^2b^{21} + ab^{22} + b^{23})(a + b)$   $(a + b)^{24} + (a - b)^{24} = 2(a^{23} - a^{22}b + a^{21}b^2 - a^{20}b^3 + a^{19}b^4 - a^{18}b^5 + a^{17}b^6 - a^{16}b^7 + a^{15}b^8 - a^{14}b^9 + a^{13}b^{10} - a^{12}b^{11} + a^{11}b^{12} - a^{10}b^{13} + a^9b^{14} - a^8b^{15} + a^7b^{16} - a^6b^{17} + a^5b^{18} - a^4b^{19} + a^3b^{20} - a^2b^{21} + ab^{22} - b^{23})(a + b)$   $(a + b)^{25} - (a - b)^{25} = 2(a^{24} + a^{23}b + a^{22}b^2 + a^{21}b^3 + a^{20}b^4 + a^{19}b^5 + a^{18}b^6 + a^{17}b^7 + a^{16}b^8 + a^{15}b^9 + a^{14}b^{10} + a^{13}b^{11} + a^{12}b^{12} + a^{11}b^{13} + a^{10}b^{14} + a^9b^{15} + a^8b^{16} + a^7b^{17} + a^6b^{18} + a^5b^{19} + a^4b^{20} + a^3b^{21} + a^2b^{22} + ab^{23} + b^{24})(a + b)$   $(a + b)^{25} + (a - b)^{25} = 2(a^{24} - a^{23}b + a^{22}b^2 - a^{21}b^3 + a^{20}b^4 - a^{19}b^5 + a^{18}b^6 - a^{17}b^7 + a^{16}b^8 - a^{15}b^9 + a^{14}b^{10} - a^{13}b^{11} + a^{12}b^{12} - a^{11}b^{13} + a^{10}b^{14} - a^9b^{15} + a^8b^{16} - a^7b^{17} + a^6b^{18} - a^5b^{19} + a^4b^{20} - a^3b^{21} + a^2b^{22} - ab^{23} + b^{24})(a + b)$   $(a + b)^{26} - (a - b)^{26} = 2(a^{25} + a^{24}b + a^{23}b^2 + a^{22}b^3 + a^{21}b^4 + a^{20}b^5 + a^{19}b^6 + a^{18}b^7 + a^{17}b^8 + a^{16}b^9 + a^{15}b^{10} + a^{14}b^{11} + a^{13}b^{12} + a^{12}b^{13} + a^{11}b^{14} + a^{10}b^{15} + a^9b^{16} + a^8b^{17} + a^7b^{18} + a^6b^{19} + a^5b^{20} + a^4b^{21} + a^3b^{22} + a^2b^{23} + ab^{24} + b^{25})(a + b)$   $(a + b)^{26} + (a - b)^{26} = 2(a^{25} - a^{24}b + a^{23}b^2 - a^{22}b^3 + a^{21}b^4 - a^{20}b^5 + a^{19}b^6 - a^{18}b^7 + a^{17}b^8 - a^{16}b^9 + a^{15}b^{10} - a^{14}b^{11} + a^{13}b^{12} - a^{12}b^{13} + a^{11}b^{14} - a^{10}b^{15} + a^9b^{16} - a^8b^{17} + a^7b^{18} - a^6b^{19} + a^5b^{20} - a^4b^{21} + a^3b^{22} - a^2b^{23} + ab^{24} - b^{25})(a + b)$   $(a + b)^{27} - (a - b)^{27} = 2(a^{26} + a^{25}b + a^{24}b^2 + a^{23}b^3 + a^{22}b^4 + a^{21}b^5 + a^{20}b^6 + a^{19}b^7 + a^{18}b^8 + a^{17}b^9 + a^{16}b^{10} + a^{15}b^{11} + a^{14}b^{12} + a^{13}b^{13} + a^{12}b^{14} + a^{11}b^{15} + a^{10}b^{16} + a^9b^{17} + a^8b^{18} + a^7b^{19} + a^6b^{20} + a^5b^{21} + a^4b^{22} + a^3b^{23} + a^2b^{24} + ab^{25} + b^{26})(a + b)$   $(a + b)^{27} + (a - b)^{27} = 2(a^{26} - a^{25}b + a^{24}b^2 - a^{23}b^3 + a^{22}b^4 - a^{21}b^5 + a^{20}b^6 - a^{19}b^7 + a^{18}b^8 - a^{17}b^9 + a^{16}b^{10} - a^{15}b^{11} + a^{14}b^{12} - a^{13}b^{13} + a^{12}b^{14} - a^{11}b^{15} + a^{10}b^{16} - a^9b^{17} + a^8b^{18} - a^7b^{19} + a^6b^{20} - a^5b^{21} + a^4b^{22} - a^3b^{23} + a^2b^{24} - ab^{25} + b^{26})(a + b)$   $(a + b)^{28} - (a - b)^{28} = 2(a^{27} + a^{26}b + a^{25}b^2 + a^{24}b^3 + a^{23}b^4 + a^{22}b^5 + a^{21}b^6 + a^{20}b^7 + a^{19}b^8 + a^{18}b^9 + a^{17}b^{10} + a^{16}b^{11} + a^{15}b^{12} + a^{14}b^{13} + a^{13}b^{14} + a^{12}b^{15} + a^{11}b^{16} + a^{10}b^{17} + a^9b^{18} + a^8b^{19} + a^7b^{20} + a^6b^{21} + a^5b^{22} + a^4b^{23} + a^3b^{24} + a^2b^{25} + ab^{26} + b^{27})(a + b)$   $(a + b)^{28} + (a - b)^{28} = 2(a^{27} - a^{26}b + a^{25}b^2 - a^{24}b^3 + a^{23}b^4 - a^{22}b^5 + a^{21}b^6 - a^{20}b^7 + a^{19}b^8 - a^{18}b^9 + a^{17}b^{10} - a^{16}b^{11} + a^{15}b^{12} - a^{14}b^{13} + a^{13}b^{14} - a^{12}b^{15} + a^{11}b^{16} - a^{10}b^{17} + a^9b^{18} - a^8b^{19} + a^7b^{20} - a^6b^{21} + a^5b^{22} - a^4b^{23} + a^3b^{24} - a^2b^{25} + ab^{26} - b^{27})(a + b)$   $(a + b)^{29} - (a - b)^{29} = 2(a^{28} + a^{27}b + a^{26}b^2 + a^{25}b^3 + a^{24}b^4 + a^{23}b^5 + a^{22}b^6 + a^{21}b^7 + a^{20}b^8 + a^{19}b^9 + a^{18}b^{10} + a^{17}b^{11} + a^{16}b^{12} + a^{15}b^{13} + a^{14}b^{14} + a^{13}b^{15} + a^{12}b^{16} + a^{11}b^{17} + a^{10}b^{18} + a^9b^{19} + a^8b^{20} + a^7b^{21} + a^6b^{22} + a^5b^{23} + a^4b^{24} + a^3b^{25} + a^2b^{26} + ab^{27} + b^{28})(a + b)$   $(a + b)^{29} + (a - b)^{29} = 2(a^{28} - a^{27}b + a^{26}b^2 - a^{25}b^3 + a^{24}b^4 - a^{23}b^5 + a^{22}b^6 - a^{21}b^7 + a^{20}b^8 - a^{19}b^9 + a^{18}b^{10} - a^{17}b^{11} + a^{16}b^{12} - a^{15}b^{13} + a^{14}b^{14} - a^{13}b^{15} + a^{12}b^{16} - a^{11}b^{17} + a^{10}b^{18} - a^9b^{19} + a^8b^{20} - a^7b^{21} + a^6b^{22} - a^5b^{23} + a^4b^{24} - a^3b^{25} + a^2b^{26} - ab^{27} + b^{28})(a + b)$   $(a + b)^{30} - (a - b)^{30} = 2(a^{29} + a^{28}b + a^{27}b^2 + a^{26}b^3 + a^{25}b^4 + a^{24}b^5 + a^{23}b^6 + a^{22}b^7 + a^{21}b^8 + a^{20}b^9 + a^{19}b^{10} + a^{18}b^{11} + a^{17}b^{12} + a^{16}b^{13} + a^{15}b^{14} + a^{14}b^{15} + a^{13}b^{16} + a^{12}b^{17} + a^{11}b^{18} + a^{10}b^{19} + a^9b^{20} + a^8b^{21} + a^7b^{22} + a^6b^{23} + a^5b^{24} + a^4b^{25} + a^3b^{26} + a^2b^{27} + ab^{28} + b^{29})(a + b)$   $(a + b)^{30} + (a - b)^{30} = 2(a^{29} - a^{28}b + a^{27}b^2 - a^{26}b^3 + a^{25}b^4 - a^{24}b^5 + a^{23}b^6 - a^{22}b^7 + a^{21}b^8 - a^{20}b^9 + a^{19}b^{10} - a^{18}b^{11} + a^{17}b^{12} - a^{16}b^{13} + a^{15}b^{14} - a^{14}b^{15} + a^{13}b^{16} - a^{12}b^{17} + a^{11}b^{18} - a^{10}b^{19} + a^9b^{20} - a^8b^{21} + a^7b^{22} - a^6b^{23} + a^5b^{24} - a^4b^{25} + a^3b^{26} - a^2b^{27} + ab^{28} - b^{29})(a + b)$   $(a + b)^{31} - (a - b)^{31} = 2(a^{30} + a^{29}b + a^{28}b^2 + a^{27}b^3 + a^{26}b^4 + a^{25}b^5 + a^{24}b^6 + a^{23}b^7 + a^{22}b^8 + a^{21}b^9 + a^{20}b^{10} + a^{19}b^{11} + a^{18}b^{12} + a^{17}b^{13} + a^{16}b^{14} + a^{15}b^{15} + a^{14}b^{16} + a^{13}b^{17} + a^{12}b^{18} + a^{11}b^{19} + a^{10}b^{20} + a^9b^{21} + a^8b^{22} + a^7b^{23} + a^6b^{24} + a^5b^{25} + a^4b^{26} + a^3b^{27} + a^2b^{28} + ab^{29} + b^{30})(a + b)$   $(a + b)^{31} + (a - b)^{31} = 2(a^{30} - a^{29}b + a^{28}b^2 - a^{27}b^3 + a^{26}b^4 - a^{25}b^5 + a^{24}b^6 - a^{23}b^7 + a^{22}b^8 - a^{21}b^9 + a^{20}b^{10} - a^{19}b^{11} + a^{18}b^{12} - a^{17}b^{13} + a^{16}b^{14} - a^{15}b^{15} + a^{14}b^{16} - a^{13}b^{17} + a^{12}b^{18} - a^{11}b^{19} + a^{10}b^{20} - a^9b^{21} + a^8b^{22} - a^7b^{23} + a^6b^{24} - a^5b^{25} + a^4b^{26} - a^3b^{27} + a^2b^{28} - ab^{29} + b^{30})(a + b)$   $(a + b)^{32} - (a - b)^{32} = 2(a^{31} + a^{30}b + a^{29}b^2 + a^{28}b^3 + a^{27}b^4 + a^{26}b^5 + a^{25}b^6 + a^{24}b^7 + a^{23}b^8 + a^{22}b^9 + a^{21}b^{10} + a^{20}b^{11} + a^{19}b^{12} + a^{18}b^{13} + a^{17}b^{14} + a^{16}b^{15} + a^{15}b^{16} + a^{14}b^{17} + a^{13}b^{18} + a^{12}b^{19} + a^{11}b^{20} + a^{10}b^{21} + a^9b^{22} + a^8b^{23} + a^7b^{24} + a^6b^{25} + a^5b^{26} + a^4b^{27} + a^3b^{28} + a^2b^{29} + ab^{30} + b^{31})(a + b)$   $(a + b)^{32} + (a - b)^{32} = 2(a^{31} - a^{30}b + a^{29}b^2 - a^{28}b^3 + a^{27}b^4 - a^{26}b^5 + a^{25}b^6 - a^{24}b^7 + a^{23}b^8 - a^{22}b^9 + a^{21}b^{10} - a^{20}b^{11} + a^{19}b^{12} - a^{18}b^{13} + a^{17}b^{14} - a^{16}b^{15} + a^{15}b^{16} - a^{14}b^{17} + a^{13}b^{18} - a^{12}b^{19} + a^{11}b^{20} - a^{10}b^{21} + a^9b^{22} - a^8b^{23} + a^7b^{24} - a^6b^{25} + a^5b^{26} - a^4b^{27} + a^3b^{28} - a^2b^{29} + ab^{30} - b^{31})(a + b)$   $(a + b)^{33} - (a - b)^{33} = 2(a^{32} + a^{31}b + a^{30}b^2 + a^{29}b^3 + a^{28}b^4 + a^{27}b^5 + a^{26}b^6 + a^{25}b^7 + a^{24}b^8 + a^{23}b^9 + a^{22}b^{10} + a^{21}b^{11} + a^{20}b^{12} + a^{19}b^{13} + a^{18}b^{14} + a^{17}b^{15} + a^{16}b^{16} + a^{15}b^{17} + a^{14}b^{18} + a^{13}b^{19} + a^{12}b^{20} + a^{11}b^{21} + a^{10}b^{22} + a^9b^{23} + a^8b^{24} + a^7b^{25} + a^6b^{26} + a^5b^{27} + a^4b^{28} + a^3b^{29} + a^2b^{30} + ab^{31} + b^{32})(a + b)$   $(a + b)^{33} + (a - b)^{33} = 2(a^{32} - a^{31}b + a^{30}b^2 - a^{29}b^3 + a^{28}b^4 - a^{27}b^5 + a^{26}b^6 - a^{25}b^7 + a^{24}b^8 - a^{23}b^9 + a^{22}b^{10} - a^{21}b^{11} + a^{20}b^{12} - a^{19}b^{13} + a^{18}b^{14} - a^{17}b^{15} + a^{16}b^{16} - a^{15}b^{17} + a^{14}b^{18} - a^{13}b^{19} + a^{12}b^{20} - a^{11}b^{21} + a^{10}b^{22} - a^9b^{23} + a^8b^{24} - a^7b^{25} + a^6b^{26} - a^5b^{27} + a^4b^{28} - a^3b^{29} + a^2b^{30} - ab^{31} + b^{32})(a + b)$   $(a + b)^{34} - (a - b)^{34} = 2(a^{33} + a^{32}b + a^{31}b^2 + a^{30}b^3 + a^{29}b^4 + a^{28}b^5 + a^{27}b^6 + a^{26}b^7 + a^{25}b^8 + a^{24}b^9 + a^{23}b^{10} + a^{22}b^{11} + a^{21}b^{12} + a^{20}b^{13} + a^{19}b^{14} + a^{18}b^{15} + a^{17}b^{16} + a^{16}b^{17} + a^{15}b^{18} + a^{14}b^{19} + a^{13}b^{20} + a^{12}b^{21} + a^{11}b^{22} + a^{10}b^{23} + a^9b^{24} + a^8b^{25} + a^7b^{26} + a^6b^{27} + a^5b^{28} + a^4b^{29} + a^3b^{30} + a^2b^{31} + ab^{32} + b^{33})(a + b)$   $(a + b)^{34} + (a - b)^{34} = 2(a^{33} - a^{32}b + a^{31}b^2 - a^{30}b^3 + a^{29}b^4 - a^{28}b^5 + a^{27}b^6 - a^{26}b^7 + a^{25}b^8 - a^{24}b^9 + a^{23}b^{10} - a^{22}b^{11} + a^{21}b^{12} - a^{20}b^{13} + a^{19}b^{14} - a^{18}b^{15} + a^{17}b^{16} - a^{16}b^{17} + a^{15}b^{18} - a^{14}b^{19} + a^{13}b^{20} - a^{12}b^{21} + a^{11}b^{22} - a^{10}b^{23} + a^9b^{24} - a^8b^{25} + a^7b^{26} - a^6b^{27} + a^5b^{28} - a^4b^{29} + a^3$

solution exercise 4 1 1 find the square of the following expression with the help of formulae  $a^2 + 2ab + b^2 = (a + b)^2$   $a^2 - 2ab + b^2 = (a - b)^2$   
 $70ab + 49b^2 + 6x^2 + 36x^2 + 6x^3 + 9 + 36x^2 + 36x^9 + c^7 + p^2 + q^2$

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