

# Student Problem Manual

for use with

## Corporate Finance

Ross

Westerfield

Jaffe



Fifth Edition

Prepared by  
Robert C. Hanson

# Corporate Finance Student Problem Manual

**Robert C. Hanson**



## **Corporate Finance Student Problem Manual:**

Student Problem Manual to accompany Essentials of Corporate Finance Bradford D. Jordan, Professor, Randolph W. Westerfield, Prof Stephen A. Ross, 2010-03-16 The Student Problem Manual prepared by Thomas Eysell University of Missouri St Louis provides additional problems for practice Each chapter begins with concepts for review followed by chapter highlights A short concept test averaging 10 questions and answers appears next Each chapter concludes with additional problems for students to review with answers available at the end of the manual **Corporate Finance Student Problem Manual** Robert C. Hanson, Stephen A. Ross, 1999 **Corporate Finance** Stephen A. Ross, 1996-12-01

**Student Problem Manual to accompany Fundamentals of Corporate Finance** Stephen Ross, 2007-03-22 The Student Problem Manual is a direct companion to the text It is uniquely designed to involve the student in the learning process Each chapter contains a mission statement an average of 20 fill in the blank concept test questions and answers and an average of 15 problems and worked out solutions This product can be purchased separately or in a combo packaged with this text Prepared by Robert Hanson Eastern Michigan University **Student Problem Manual to Accompany Corporate Finance** JEFFREY JAFFE, Stephen Ross, RANDOLPH WESTERFIELD, 2009-10-09 Fundamentals of Corporate Finance: Student problem manual Stephen A. Ross, Randolph Westerfield, Bradford D. Jordan, 2003 **Essential Corporate Finance** Ross, 1996-02-01 Student Problem Manual for Use with Fundamentals of Corporate Finance, Second Edition, Stephen A. Ross, Randolph W. Westerfield, Bradford D.J. Thomas H. Eysell, 1993 **Student problem manual for use with Fundamentals of corporate finance** Thomas H. Eysell, 1995 **Essentials of Corporate Finance + PowerWeb + Student Problem Manual** Stephen A Ross, Stephen A. Ross, Thomas H. Eysell, Randolph W. Westerfield, Bradford D. Jordan, Jordan Bradford, 2001 This text has enjoyed incredible success in the last two editions The introductory corporate finance market has embraced the essentialized product The message for this edition of Essentials continues from the second edition this is THE text for both finance and non finance majors The authors continue to maintain a corporate finance framework but have enhanced general business topics wherever appropriate Student Problem Manual to accompany Fundamentals of Corporate Finance Stephen Ross, 2009-03-23 Student Problem Manual for Use with Fundamentals of Corporate Finance Stephen A. Ross, Thomas H. Eysell, Randolph Westerfield, Bradford D. Jordan, 2003 Student Problem Manual for Use with Corporate Finance, Fourth Edition, Stephen A. Ross, Randolph W. Westerfield, Jeffrey F. Jaffe Robert C. Hanson, 1996 Student Problem Manual to accompany Corporate Finance Stephen Ross, Randolph Westerfield, Jeffrey Jaffe, 2006-10-20 Student Problem Manual for Use with Corporate Finance, 3rd Ed., Stephen A. Ross, Randolph W. Westerfield, Jeffrey F. Jaffe Robert C. Hanson, 1993 **Student Problem Manual for Use with Essentials of Corporate Finance [by] Stephen A. Ross, Randolph A. Westerfield, Bradford D. Jordan** Thomas Henry Eysell, Randolph Westerfield, Bradford D. Jordan, 1999 *Student Problem Manual to accompany Corporate Finance* Stephen Ross, Randolph

Westerfield, Jeffrey Jaffe, 2006-10-20      **Student Problem Manual for Use with Fundamentals of Corporate Finance, Seventh Edition, Stephen A. Ross, Randolph W. Westerfield, Bradford D. Jordan** Thomas H. Eysell, 2006      *Student Problem Manual for Use with Corporate Finance* Stephen A. Ross, Robert C. Hanson, Jeffrey F. Jaffe, Randolph W. Westerfield, 2005 Prepared by Robert Hanson Eastern Michigan University this book contains a mission statement fill in the blank concept test questions and answers and problems and worked out solutions      **Student Problem Manual for Use with Essentials of Corporate Finance [by] Stephen A. Ross, Randolph W. Westerfield, Bradford D. Jordan** Thomas H. Eysell, Randolph Westerfield, Bradford D. Jordan, 2007

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web algebra formulas for class 8 here is the list of class 8 algebra formula  $a^2 - b^2 = (a + b)(a - b)$   $a^2 + 2ab + b^2 = (a + b)^2$   $a^2 - 2ab + b^2 = (a - b)^2$   $(a + b)^2 = a^2 + 2ab + b^2$   $(a - b)^2 = a^2 - 2ab + b^2$   $(a + b)(a - b) = a^2 - b^2$   $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$   $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$   $(a + b)^2 - (a - b)^2 = 4ab$   $(a + b)^3 - (a - b)^3 = 6a^2b + 6ab^2$   $(a + b)^4 - (a - b)^4 = 4a^3b + 4ab^3$   $(a + b)^5 - (a - b)^5 = 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4$   $(a + b)^6 - (a - b)^6 = 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5$   $(a + b)^7 - (a - b)^7 = 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6$   $(a + b)^8 - (a - b)^8 = 8a^7b + 28a^6b^2 + 56a^5b^3 + 56a^4b^4 + 28a^3b^5 + 8a^2b^6$   $(a + b)^9 - (a - b)^9 = 9a^8b + 36a^7b^2 + 84a^6b^3 + 84a^5b^4 + 36a^4b^5 + 9a^3b^6$   $(a + b)^{10} - (a - b)^{10} = 10a^9b + 45a^8b^2 + 120a^7b^3 + 120a^6b^4 + 45a^5b^5 + 10a^4b^6$   $(a + b)^{11} - (a - b)^{11} = 11a^{10}b + 55a^9b^2 + 165a^8b^3 + 165a^7b^4 + 55a^6b^5 + 11a^5b^6$   $(a + b)^{12} - (a - b)^{12} = 12a^{11}b + 66a^{10}b^2 + 198a^9b^3 + 198a^8b^4 + 66a^7b^5 + 12a^6b^6$   $(a + b)^{13} - (a - b)^{13} = 13a^{12}b + 78a^{11}b^2 + 273a^{10}b^3 + 273a^9b^4 + 78a^8b^5 + 13a^7b^6$   $(a + b)^{14} - (a - b)^{14} = 14a^{13}b + 91a^{12}b^2 + 378a^{11}b^3 + 378a^{10}b^4 + 91a^9b^5 + 14a^8b^6$   $(a + b)^{15} - (a - b)^{15} = 15a^{14}b + 105a^{13}b^2 + 472a^{12}b^3 + 472a^{11}b^4 + 105a^{10}b^5 + 15a^9b^6$   $(a + b)^{16} - (a - b)^{16} = 16a^{15}b + 120a^{14}b^2 + 560a^{13}b^3 + 560a^{12}b^4 + 120a^{11}b^5 + 16a^{10}b^6$   $(a + b)^{17} - (a - b)^{17} = 17a^{16}b + 136a^{15}b^2 + 680a^{14}b^3 + 680a^{13}b^4 + 136a^{12}b^5 + 17a^{11}b^6$   $(a + b)^{18} - (a - b)^{18} = 18a^{17}b + 153a^{16}b^2 + 816a^{15}b^3 + 816a^{14}b^4 + 153a^{13}b^5 + 18a^{12}b^6$   $(a + b)^{19} - (a - b)^{19} = 19a^{18}b + 171a^{17}b^2 + 1026a^{16}b^3 + 1026a^{15}b^4 + 171a^{14}b^5 + 19a^{13}b^6$   $(a + b)^{20} - (a - b)^{20} = 20a^{19}b + 190a^{18}b^2 + 1224a^{17}b^3 + 1224a^{16}b^4 + 190a^{15}b^5 + 20a^{14}b^6$   $(a + b)^{21} - (a - b)^{21} = 21a^{20}b + 210a^{19}b^2 + 1470a^{18}b^3 + 1470a^{17}b^4 + 210a^{16}b^5 + 21a^{15}b^6$   $(a + b)^{22} - (a - b)^{22} = 22a^{21}b + 231a^{20}b^2 + 1716a^{19}b^3 + 1716a^{18}b^4 + 231a^{17}b^5 + 22a^{16}b^6$   $(a + b)^{23} - (a - b)^{23} = 23a^{22}b + 253a^{21}b^2 + 2002a^{20}b^3 + 2002a^{19}b^4 + 253a^{18}b^5 + 23a^{17}b^6$   $(a + b)^{24} - (a - b)^{24} = 24a^{23}b + 276a^{22}b^2 + 2352a^{21}b^3 + 2352a^{20}b^4 + 276a^{19}b^5 + 24a^{18}b^6$   $(a + b)^{25} - (a - b)^{25} = 25a^{24}b + 300a^{23}b^2 + 2700a^{22}b^3 + 2700a^{21}b^4 + 300a^{20}b^5 + 25a^{19}b^6$   $(a + b)^{26} - (a - b)^{26} = 26a^{25}b + 322a^{24}b^2 + 3080a^{23}b^3 + 3080a^{22}b^4 + 322a^{21}b^5 + 26a^{20}b^6$   $(a + b)^{27} - (a - b)^{27} = 27a^{26}b + 345a^{25}b^2 + 3510a^{24}b^3 + 3510a^{23}b^4 + 345a^{22}b^5 + 27a^{21}b^6$   $(a + b)^{28} - (a - b)^{28} = 28a^{27}b + 364a^{26}b^2 + 4004a^{25}b^3 + 4004a^{24}b^4 + 364a^{23}b^5 + 28a^{22}b^6$   $(a + b)^{29} - (a - b)^{29} = 29a^{28}b + 385a^{27}b^2 + 4506a^{26}b^3 + 4506a^{25}b^4 + 385a^{24}b^5 + 29a^{23}b^6$   $(a + b)^{30} - (a - b)^{30} = 30a^{29}b + 405a^{28}b^2 + 5040a^{27}b^3 + 5040a^{26}b^4 + 405a^{25}b^5 + 30a^{24}b^6$   $(a + b)^{31} - (a - b)^{31} = 31a^{30}b + 426a^{29}b^2 + 5610a^{28}b^3 + 5610a^{27}b^4 + 426a^{26}b^5 + 31a^{25}b^6$   $(a + b)^{32} - (a - b)^{32} = 32a^{31}b + 448a^{30}b^2 + 6160a^{29}b^3 + 6160a^{28}b^4 + 448a^{27}b^5 + 32a^{26}b^6$   $(a + b)^{33} - (a - b)^{33} = 33a^{32}b + 471a^{31}b^2 + 6786a^{30}b^3 + 6786a^{29}b^4 + 471a^{28}b^5 + 33a^{27}b^6$   $(a + b)^{34} - (a - b)^{34} = 34a^{33}b + 495a^{32}b^2 + 7460a^{31}b^3 + 7460a^{30}b^4 + 495a^{29}b^5 + 34a^{28}b^6$   $(a + b)^{35} - (a - b)^{35} = 35a^{34}b + 516a^{33}b^2 + 8160a^{32}b^3 + 8160a^{31}b^4 + 516a^{30}b^5 + 35a^{29}b^6$   $(a + b)^{36} - (a - b)^{36} = 36a^{35}b + 540a^{34}b^2 + 8910a^{33}b^3 + 8910a^{32}b^4 + 540a^{31}b^5 + 36a^{30}b^6$   $(a + b)^{37} - (a - b)^{37} = 37a^{36}b + 565a^{35}b^2 + 9702a^{34}b^3 + 9702a^{33}b^4 + 565a^{32}b^5 + 37a^{31}b^6$   $(a + b)^{38} - (a - b)^{38} = 38a^{37}b + 591a^{36}b^2 + 10540a^{35}b^3 + 10540a^{34}b^4 + 591a^{33}b^5 + 38a^{32}b^6$   $(a + b)^{39} - (a - b)^{39} = 39a^{38}b + 618a^{37}b^2 + 11430a^{36}b^3 + 11430a^{35}b^4 + 618a^{34}b^5 + 39a^{33}b^6$   $(a + b)^{40} - (a - b)^{40} = 40a^{39}b + 646a^{38}b^2 + 12360a^{37}b^3 + 12360a^{36}b^4 + 646a^{35}b^5 + 40a^{34}b^6$   $(a + b)^{41} - (a - b)^{41} = 41a^{40}b + 676a^{39}b^2 + 13330a^{38}b^3 + 13330a^{37}b^4 + 676a^{36}b^5 + 41a^{35}b^6$   $(a + b)^{42} - (a - b)^{42} = 42a^{41}b + 707a^{40}b^2 + 14340a^{39}b^3 + 14340a^{38}b^4 + 707a^{37}b^5 + 42a^{36}b^6$   $(a + b)^{43} - (a - b)^{43} = 43a^{42}b + 739a^{41}b^2 + 15390a^{40}b^3 + 15390a^{39}b^4 + 739a^{38}b^5 + 43a^{37}b^6$   $(a + b)^{44} - (a - b)^{44} = 44a^{43}b + 772a^{42}b^2 + 16480a^{41}b^3 + 16480a^{40}b^4 + 772a^{39}b^5 + 44a^{38}b^6$   $(a + b)^{45} - (a - b)^{45} = 45a^{44}b + 807a^{43}b^2 + 17610a^{42}b^3 + 17610a^{41}b^4 + 807a^{40}b^5 + 45a^{39}b^6$   $(a + b)^{46} - (a - b)^{46} = 46a^{45}b + 843a^{44}b^2 + 18780a^{43}b^3 + 18780a^{42}b^4 + 843a^{41}b^5 + 46a^{40}b^6$   $(a + b)^{47} - (a - b)^{47} = 47a^{46}b + 881a^{45}b^2 + 20000a^{44}b^3 + 20000a^{43}b^4 + 881a^{42}b^5 + 47a^{41}b^6$   $(a + b)^{48} - (a - b)^{48} = 48a^{47}b + 920a^{46}b^2 + 21264a^{45}b^3 + 21264a^{44}b^4 + 920a^{43}b^5 + 48a^{42}b^6$   $(a + b)^{49} - (a - b)^{49} = 49a^{48}b + 961a^{47}b^2 + 22578a^{46}b^3 + 22578a^{45}b^4 + 961a^{44}b^5 + 49a^{43}b^6$   $(a + b)^{50} - (a - b)^{50} = 50a^{49}b + 1004a^{48}b^2 + 23950a^{47}b^3 + 23950a^{46}b^4 + 1004a^{45}b^5 + 50a^{44}b^6$   $(a + b)^{51} - (a - b)^{51} = 51a^{50}b + 1048a^{49}b^2 + 25380a^{48}b^3 + 25380a^{47}b^4 + 1048a^{46}b^5 + 51a^{45}b^6$   $(a + b)^{52} - (a - b)^{52} = 52a^{51}b + 1094a^{50}b^2 + 26868a^{49}b^3 + 26868a^{48}b^4 + 1094a^{47}b^5 + 52a^{46}b^6$   $(a + b)^{53} - (a - b)^{53} = 53a^{52}b + 1141a^{51}b^2 + 28416a^{50}b^3 + 28416a^{49}b^4 + 1141a^{48}b^5 + 53a^{47}b^6$   $(a + b)^{54} - (a - b)^{54} = 54a^{53}b + 1190a^{52}b^2 + 30030a^{51}b^3 + 30030a^{50}b^4 + 1190a^{49}b^5 + 54a^{48}b^6$   $(a + b)^{55} - (a - b)^{55} = 55a^{54}b + 1241a^{53}b^2 + 31710a^{52}b^3 + 31710a^{51}b^4 + 1241a^{50}b^5 + 55a^{49}b^6$   $(a + b)^{56} - (a - b)^{56} = 56a^{55}b + 1294a^{54}b^2 + 33464a^{53}b^3 + 33464a^{52}b^4 + 1294a^{51}b^5 + 56a^{50}b^6$   $(a + b)^{57} - (a - b)^{57} = 57a^{56}b + 1349a^{55}b^2 + 35298a^{54}b^3 + 35298a^{53}b^4 + 1349a^{52}b^5 + 57a^{51}b^6$   $(a + b)^{58} - (a - b)^{58} = 58a^{57}b + 1406a^{56}b^2 + 37218a^{55}b^3 + 37218a^{54}b^4 + 1406a^{53}b^5 + 58a^{52}b^6$   $(a + b)^{59} - (a - b)^{59} = 59a^{58}b + 1465a^{57}b^2 + 39228a^{56}b^3 + 39228a^{55}b^4 + 1465a^{54}b^5 + 59a^{53}b^6$   $(a + b)^{60} - (a - b)^{60} = 60a^{59}b + 1526a^{58}b^2 + 41334a^{57}b^3 + 41334a^{56}b^4 + 1526a^{55}b^5 + 60a^{54}b^6$   $(a + b)^{61} - (a - b)^{61} = 61a^{60}b + 1589a^{59}b^2 + 43540a^{58}b^3 + 43540a^{57}b^4 + 1589a^{56}b^5 + 61a^{55}b^6$   $(a + b)^{62} - (a - b)^{62} = 62a^{61}b + 1654a^{60}b^2 + 45850a^{59}b^3 + 45850a^{58}b^4 + 1654a^{57}b^5 + 62a^{56}b^6$   $(a + b)^{63} - (a - b)^{63} = 63a^{62}b + 1721a^{61}b^2 + 48270a^{60}b^3 + 48270a^{59}b^4 + 1721a^{58}b^5 + 63a^{57}b^6$   $(a + b)^{64} - (a - b)^{64} = 64a^{63}b + 1790a^{62}b^2 + 50808a^{61}b^3 + 50808a^{60}b^4 + 1790a^{59}b^5 + 64a^{58}b^6$   $(a + b)^{65} - (a - b)^{65} = 65a^{64}b + 1861a^{63}b^2 + 53470a^{62}b^3 + 53470a^{61}b^4 + 1861a^{60}b^5 + 65a^{59}b^6$   $(a + b)^{66} - (a - b)^{66} = 66a^{65}b + 1934a^{64}b^2 + 56262a^{63}b^3 + 56262a^{62}b^4 + 1934a^{61}b^5 + 66a^{60}b^6$   $(a + b)^{67} - (a - b)^{67} = 67a^{66}b + 2009a^{65}b^2 + 59184a^{64}b^3 + 59184a^{63}b^4 + 2009a^{62}b^5 + 67a^{61}b^6$   $(a + b)^{68} - (a - b)^{68} = 68a^{67}b + 2086a^{66}b^2 + 62238a^{65}b^3 + 62238a^{64}b^4 + 2086a^{63}b^5 + 68a^{62}b^6$   $(a + b)^{69} - (a - b)^{69} = 69a^{68}b + 2166a^{67}b^2 + 65430a^{66}b^3 + 65430a^{65}b^4 + 2166a^{64}b^5 + 69a^{63}b^6$   $(a + b)^{70} - (a - b)^{70} = 70a^{69}b + 2248a^{68}b^2 + 68760a^{67}b^3 + 68760a^{66}b^4 + 2248a^{65}b^5 + 70a^{64}b^6$   $(a + b)^{71} - (a - b)^{71} = 71a^{70}b + 2332a^{69}b^2 + 72230a^{68}b^3 + 72230a^{67}b^4 + 2332a^{66}b^5 + 71a^{65}b^6$   $(a + b)^{72} - (a - b)^{72} = 72a^{71}b + 2418a^{70}b^2 + 75846a^{69}b^3 + 75846a^{68}b^4 + 2418a^{67}b^5 + 72a^{66}b^6$   $(a + b)^{73} - (a - b)^{73} = 73a^{72}b + 2506a^{71}b^2 + 80608a^{70}b^3 + 80608a^{69}b^4 + 2506a^{68}b^5 + 73a^{67}b^6$   $(a + b)^{74} - (a - b)^{74} = 74a^{73}b + 2596a^{72}b^2 + 85530a^{71}b^3 + 85530a^{70}b^4 + 2596a^{69}b^5 + 74a^{68}b^6$   $(a + b)^{75} - (a - b)^{75} = 75a^{74}b + 2688a^{73}b^2 + 90618a^{72}b^3 + 90618a^{71}b^4 + 2688a^{70}b^5 + 75a^{69}b^6$   $(a + b)^{76} - (a - b)^{76} = 76a^{75}b + 2782a^{74}b^2 + 95874a^{73}b^3 + 95874a^{72}b^4 + 2782a^{71}b^5 + 76a^{70}b^6$   $(a + b)^{77} - (a - b)^{77} = 77a^{76}b + 2878a^{75}b^2 + 101400a^{74}b^3 + 101400a^{73}b^4 + 2878a^{72}b^5 + 77a^{71}b^6$   $(a + b)^{78} - (a - b)^{78} = 78a^{77}b + 2976a^{76}b^2 + 107118a^{75}b^3 + 107118a^{74}b^4 + 2976a^{73}b^5 + 78a^{72}b^6$   $(a + b)^{79} - (a - b)^{79} = 79a^{78}b + 3076a^{77}b^2 + 113130a^{76}b^3 + 113130a^{75}b^4 + 3076a^{74}b^5 + 79a^{73}b^6$   $(a + b)^{80} - (a - b)^{80} = 80a^{79}b + 3178a^{78}b^2 + 119350a^{77}b^3 + 119350a^{76}b^4 + 3178a^{75}b^5 + 80a^{74}b^6$   $(a + b)^{81} - (a - b)^{81} = 81a^{80}b + 3282a^{79}b^2 + 125784a^{78}b^3 + 125784a^{77}b^4 + 3282a^{76}b^5 + 81a^{75}b^6$   $(a + b)^{82} - (a - b)^{82} = 82a^{81}b + 3388a^{80}b^2 + 132438a^{79}b^3 + 132438a^{78}b^4 + 3388a^{77}b^5 + 82a^{76}b^6$   $(a + b)^{83} - (a - b)^{83} = 83a^{82}b + 3496a^{81}b^2 + 139320a^{80}b^3 + 139320a^{79}b^4 + 3496a^{78}b^5 + 83a^{77}b^6$   $(a + b)^{84} - (a - b)^{84} = 84a^{83}b + 3606a^{82}b^2 + 146436a^{81}b^3 + 146436a^{80}b^4 + 3606a^{79}b^5 + 84a^{78}b^6$   $(a + b)^{85} - (a - b)^{85} = 85a^{84}b + 3718a^{83}b^2 + 153780a^{82}b^3 + 153780a^{81}b^4 + 3718a^{80}b^5 + 85a^{79}b^6$   $(a + b)^{86} - (a - b)^{86} = 86a^{85}b + 3832a^{84}b^2 + 161368a^{83}b^3 + 161368a^{82}b^4 + 3832a^{81}b^5 + 86a^{80}b^6$   $(a + b)^{87} - (a - b)^{87} = 87a^{86}b + 3948a^{85}b^2 + 169206a^{84}b^3 + 169206a^{83}b^4 + 3948a^{82}b^5 + 87a^{81}b^6$   $(a + b)^{88} - (a - b)^{88} = 88a^{87}b + 4066a^{86}b^2 + 177300a^{85}b^3 + 177300a^{84}b^4 + 4066a^{83}b^5 + 88a^{82}b^6$   $(a + b)^{89} - (a - b)^{89} = 89a^{88}b + 4186a^{87}b^2 + 185658a^{86}b^3 + 185658a^{85}b^4 + 4186a^{84}b^5 + 89a^{83}b^6$   $(a + b)^{90} - (a - b)^{90} = 90a^{89}b + 4308a^{88}b^2 + 194280a^{87}b^3 + 194280a^{86}b^4 + 4308a^{85}b^5 + 90a^{84}b^6$   $(a + b)^{91} - (a - b)^{91} = 91a^{90}b + 4432a^{89}b^2 + 203184a^{88}b^3 + 203184a^{87}b^4 + 4432a^{86}b^5 + 91a^{85}b^6$   $(a + b)^{92} - (a - b)^{92} = 92a^{91}b + 4558a^{90}b^2 + 212370a^{89}b^3 + 212370a^{88}b^4 + 4558a^{87}b^5 + 92a^{86}b^6$   $(a + b)^{93} - (a - b)^{93} = 93a^{92}b + 4686a^{91}b^2 + 221850a^{90}b^3 + 221850a^{89}b^4 + 4686a^{88}b^5 + 93a^{87}b^6$   $(a + b)^{94} - (a - b)^{94} = 94a^{93}b + 4816a^{92}b^2 + 231630a^{91}b^3 + 231630a^{90}b^4 + 4816a^{89}b^5 + 94a^{88}b^6$   $(a + b)^{95} - (a - b)^{95} = 95a^{94}b + 4948a^{93}b^2 + 241720a^{92}b^3 + 241720a^{91}b^4 + 4948a^{90}b^5 + 95a^{89}b^6$   $(a + b)^{96} - (a - b)^{96} = 96a^{95}b + 5082a^{94}b^2 + 252120a^{93}b^3 + 252120a^{92}b^4 + 5082a^{91}b^5 + 96a^{90}b^6$   $(a + b)^{97} - (a - b)^{97} = 97a^{96}b + 5218a^{95}b^2 + 262830a^{94}b^3 + 262830a^{93}b^4 + 5218a^{92}b^5 + 97a^{91}b^6$   $(a + b)^{98} - (a - b)^{98} = 98a^{97}b + 5356a^{96}b^2 + 273858a^{95}b^3 + 273858a^{94}b^4 + 5356a^{93}b^5 + 98a^{92}b^6$   $(a + b)^{99} - (a - b)^{99} = 99a^{98}b + 5496a^{97}b^2 + 285210a^{96}b^3 + 285210a^{95}b^4 + 5496a^{94}b^5 + 99a^{93}b^6$   $(a + b)^{100} - (a - b)^{100} = 100a^{99}b + 5638a^{98}b^2 + 296900a^{97}b^3 + 296900a^{96}b^4 + 5638a^{95}b^5 + 100a^{94}b^6$

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web jul 31 2018 nth power algebra formula if n is a natural number  $a^n - b^n = (a - b)(a^{n-1} + a^{n-2}b + a^{n-3}b^2 + \dots + ab^{n-2} + b^{n-1})$  if n is even  $a^{2k} - b^{2k} = (a - b)(a^{2k-1} + a^{2k-2}b + a^{2k-3}b^2 + \dots + ab^{2k-2} + b^{2k-1})$  if n is odd  $a^{2k+1} - b^{2k+1} = (a - b)(a^{2k} + a^{2k-1}b + a^{2k-2}b^2 + \dots + ab^{2k-1} + b^{2k})$   $a^2 - b^2 = (a + b)(a - b)$   $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$   $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$   $a^4 - b^4 = (a - b)(a + b)(a^2 + b^2)$   $a^4 + b^4 = (a + b)(a - b)(a^2 + ab + b^2)$   $a^5 - b^5 = (a - b)(a^4 + a^3b + a^2b^2 + ab^3 + b^4)$   $a^5 + b^5 = (a + b)(a^4 - a^3b + a^2b^2 - ab^3 + b^4)$   $a^6 - b^6 = (a - b)(a + b)(a^2 + b^2)(a^2 + ab + b^2)$   $a^6 + b^6 = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)$   $a^7 - b^7 = (a - b)(a^6 + a^5b + a^4b^2 + a^3b^3 + a^2b^4 + ab^5 + b^6)$   $a^7 + b^7 = (a + b)(a^6 - a^5b + a^4b^2 - a^3b^3 + a^2b^4 - ab^5 + b^6)$   $a^8 - b^8 = (a - b)(a + b)(a^2 + b^2)(a^2 + ab + b^2)(a^2 - ab + b^2)$   $a^8 + b^8 = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^2 + b^2)$   $a^9 - b^9 = (a - b)(a^8 + a^7b + a^6b^2 + a^5b^3 + a^4b^4 + a^3b^5 + a^2b^6 + ab^7 + b^8)$   $a^9 + b^9 = (a + b)(a^8 - a^7b + a^6b^2 - a^5b^3 + a^4b^4 - a^3b^5 + a^2b^6 - ab^7 + b^8)$   $a^{10} - b^{10} = (a - b)(a + b)(a^2 + b^2)(a^2 + ab + b^2)(a^2 - ab + b^2)$   $a^{10} + b^{10} = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^2 + b^2)$   $a^{11} - b^{11} = (a - b)(a^{10} + a^9b + a^8b^2 + a^7b^3 + a^6b^4 + a^5b^5 + a^4b^6 + a^3b^7 + a^2b^8 + ab^9 + b^{10})$   $a^{11} + b^{11} = (a + b)(a^{10} - a^9b + a^8b^2 - a^7b^3 + a^6b^4 - a^5b^5 + a^4b^6 - a^3b^7 + a^2b^8 - ab^9 + b^{10})$   $a^{12} - b^{12} = (a - b)(a + b)(a^2 + b^2)(a^2 + ab + b^2)(a^2 - ab + b^2)$   $a^{12} + b^{12} = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^2 + b^2)$   $a^{13} - b^{13} = (a - b)(a^{12} + a^{11}b + a^{10}b^2 + a^9b^3 + a^8b^4 + a^7b^5 + a^6b^6 + a^5b^7 + a^4b^8 + a^3b^9 + a^2b^{10} + ab^{11} + b^{12})$   $a^{13} + b^{13} = (a + b)(a^{12} - a^{11}b + a^{10}b^2 - a^9b^3 + a^8b^4 - a^7b^5 + a^6b^6 - a^5b^7 + a^4b^8 - a^3b^9 + a^2b^{10} - ab^{11} + b^{12})$   $a^{14} - b^{14} = (a - b)(a + b)(a^2 + b^2)(a^2 + ab + b^2)(a^2 - ab + b^2)$   $a^{14} + b^{14} = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^2 + b^2)$   $a^{15} - b^{15} = (a - b)(a^{14} + a^{13}b + a^{12}b^2 + a^{11}b^3 + a^{10}b^4 + a^9b^5 + a^8b^6 + a^7b^7 + a^6b^8 + a^5b^9 + a^4b^{10} + a^3b^{11} + a^2b^{12} + ab^{13} + b^{14})$   $a^{15} + b^{15} = (a + b)(a^{14} - a^{13}b + a^{12}b^2 - a^{11}b^3 + a^{10}b^4 - a^9b^5 + a^8b^6 - a^7b^7 + a^6b^8 - a^5b^9 + a^$

solution is solution with arithmetic and algebra numbers