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WITH ANALYTIC GEOMETRY



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web algebra formulas for class 8 here is the list of class 8 algebra formula $a^2 - b^2 = (a + b)(a - b)$ $a^2 + 2ab + b^2 = (a + b)^2$ $a^2 - 2ab + b^2 = (a - b)^2$ $(a + b)^2 = a^2 + 2ab + b^2$ $(a - b)^2 = a^2 - 2ab + b^2$ $(a + b)(a - b) = a^2 - b^2$ $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$ $(a + b)^2 - (a - b)^2 = 4ab$ $(a + b)^3 - (a - b)^3 = 6a^2b + 6ab^2$ $(a + b)^4 - (a - b)^4 = 4a^3b + 4ab^3$ $(a + b)^5 - (a - b)^5 = 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4$ $(a + b)^6 - (a - b)^6 = 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5$ $(a + b)^7 - (a - b)^7 = 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6$ $(a + b)^8 - (a - b)^8 = 8a^7b + 28a^6b^2 + 56a^5b^3 + 56a^4b^4 + 28a^3b^5 + 8a^2b^6$ $(a + b)^9 - (a - b)^9 = 9a^8b + 36a^7b^2 + 84a^6b^3 + 84a^5b^4 + 36a^4b^5 + 9a^3b^6$ $(a + b)^{10} - (a - b)^{10} = 10a^9b + 45a^8b^2 + 120a^7b^3 + 120a^6b^4 + 45a^5b^5 + 10a^4b^6$ $(a + b)^{11} - (a - b)^{11} = 11a^{10}b + 55a^9b^2 + 165a^8b^3 + 165a^7b^4 + 55a^6b^5 + 11a^5b^6$ $(a + b)^{12} - (a - b)^{12} = 12a^{11}b + 66a^{10}b^2 + 220a^9b^3 + 220a^8b^4 + 66a^7b^5 + 12a^6b^6$ $(a + b)^{13} - (a - b)^{13} = 13a^{12}b + 78a^{11}b^2 + 273a^{10}b^3 + 273a^9b^4 + 78a^8b^5 + 13a^7b^6$ $(a + b)^{14} - (a - b)^{14} = 14a^{13}b + 91a^{12}b^2 + 378a^{11}b^3 + 378a^{10}b^4 + 91a^9b^5 + 14a^8b^6$ $(a + b)^{15} - (a - b)^{15} = 15a^{14}b + 105a^{13}b^2 + 472a^{12}b^3 + 472a^{11}b^4 + 105a^{10}b^5 + 15a^9b^6$ $(a + b)^{16} - (a - b)^{16} = 16a^{15}b + 120a^{14}b^2 + 560a^{13}b^3 + 560a^{12}b^4 + 120a^{11}b^5 + 16a^{10}b^6$ $(a + b)^{17} - (a - b)^{17} = 17a^{16}b + 136a^{15}b^2 + 680a^{14}b^3 + 680a^{13}b^4 + 136a^{12}b^5 + 17a^{11}b^6$ $(a + b)^{18} - (a - b)^{18} = 18a^{17}b + 153a^{16}b^2 + 816a^{15}b^3 + 816a^{14}b^4 + 153a^{13}b^5 + 18a^{12}b^6$ $(a + b)^{19} - (a - b)^{19} = 19a^{18}b + 171a^{17}b^2 + 969a^{16}b^3 + 969a^{15}b^4 + 171a^{14}b^5 + 19a^{13}b^6$ $(a + b)^{20} - (a - b)^{20} = 20a^{19}b + 190a^{18}b^2 + 1140a^{17}b^3 + 1140a^{16}b^4 + 190a^{15}b^5 + 20a^{14}b^6$ $(a + b)^{21} - (a - b)^{21} = 21a^{20}b + 210a^{19}b^2 + 1287a^{18}b^3 + 1287a^{17}b^4 + 210a^{16}b^5 + 21a^{15}b^6$ $(a + b)^{22} - (a - b)^{22} = 22a^{21}b + 231a^{20}b^2 + 1485a^{19}b^3 + 1485a^{18}b^4 + 231a^{17}b^5 + 22a^{16}b^6$ $(a + b)^{23} - (a - b)^{23} = 23a^{22}b + 253a^{21}b^2 + 1771a^{20}b^3 + 1771a^{19}b^4 + 253a^{18}b^5 + 23a^{17}b^6$ $(a + b)^{24} - (a - b)^{24} = 24a^{23}b + 276a^{22}b^2 + 2070a^{21}b^3 + 2070a^{20}b^4 + 276a^{19}b^5 + 24a^{18}b^6$ $(a + b)^{25} - (a - b)^{25} = 25a^{24}b + 300a^{23}b^2 + 2475a^{22}b^3 + 2475a^{21}b^4 + 300a^{20}b^5 + 25a^{19}b^6$ $(a + b)^{26} - (a - b)^{26} = 26a^{25}b + 322a^{24}b^2 + 2926a^{23}b^3 + 2926a^{22}b^4 + 322a^{21}b^5 + 26a^{20}b^6$ $(a + b)^{27} - (a - b)^{27} = 27a^{26}b + 345a^{25}b^2 + 3439a^{24}b^3 + 3439a^{23}b^4 + 345a^{22}b^5 + 27a^{21}b^6$ $(a + b)^{28} - (a - b)^{28} = 28a^{27}b + 364a^{26}b^2 + 3900a^{25}b^3 + 3900a^{24}b^4 + 364a^{23}b^5 + 28a^{22}b^6$ $(a + b)^{29} - (a - b)^{29} = 29a^{28}b + 385a^{27}b^2 + 4396a^{26}b^3 + 4396a^{25}b^4 + 385a^{24}b^5 + 29a^{23}b^6$ $(a + b)^{30} - (a - b)^{30} = 30a^{29}b + 406a^{28}b^2 + 4950a^{27}b^3 + 4950a^{26}b^4 + 406a^{25}b^5 + 30a^{24}b^6$ $(a + b)^{31} - (a - b)^{31} = 31a^{30}b + 428a^{29}b^2 + 5566a^{28}b^3 + 5566a^{27}b^4 + 428a^{26}b^5 + 31a^{25}b^6$ $(a + b)^{32} - (a - b)^{32} = 32a^{31}b + 451a^{30}b^2 + 6240a^{29}b^3 + 6240a^{28}b^4 + 451a^{27}b^5 + 32a^{26}b^6$ $(a + b)^{33} - (a - b)^{33} = 33a^{32}b + 475a^{31}b^2 + 6951a^{30}b^3 + 6951a^{29}b^4 + 475a^{28}b^5 + 33a^{27}b^6$ $(a + b)^{34} - (a - b)^{34} = 34a^{33}b + 500a^{32}b^2 + 7700a^{31}b^3 + 7700a^{30}b^4 + 500a^{29}b^5 + 34a^{28}b^6$ $(a + b)^{35} - (a - b)^{35} = 35a^{34}b + 526a^{33}b^2 + 8505a^{32}b^3 + 8505a^{31}b^4 + 526a^{30}b^5 + 35a^{29}b^6$ $(a + b)^{36} - (a - b)^{36} = 36a^{35}b + 554a^{34}b^2 + 9360a^{33}b^3 + 9360a^{32}b^4 + 554a^{31}b^5 + 36a^{30}b^6$ $(a + b)^{37} - (a - b)^{37} = 37a^{36}b + 583a^{35}b^2 + 10273a^{34}b^3 + 10273a^{33}b^4 + 583a^{32}b^5 + 37a^{31}b^6$ $(a + b)^{38} - (a - b)^{38} = 38a^{37}b + 614a^{36}b^2 + 11242a^{35}b^3 + 11242a^{34}b^4 + 614a^{33}b^5 + 38a^{32}b^6$ $(a + b)^{39} - (a - b)^{39} = 39a^{38}b + 646a^{37}b^2 + 12267a^{36}b^3 + 12267a^{35}b^4 + 646a^{34}b^5 + 39a^{33}b^6$ $(a + b)^{40} - (a - b)^{40} = 40a^{39}b + 680a^{38}b^2 + 13350a^{37}b^3 + 13350a^{36}b^4 + 680a^{35}b^5 + 40a^{34}b^6$ $(a + b)^{41} - (a - b)^{41} = 41a^{40}b + 716a^{39}b^2 + 14491a^{38}b^3 + 14491a^{37}b^4 + 716a^{36}b^5 + 41a^{35}b^6$ $(a + b)^{42} - (a - b)^{42} = 42a^{41}b + 754a^{40}b^2 + 15690a^{39}b^3 + 15690a^{38}b^4 + 754a^{37}b^5 + 42a^{36}b^6$ $(a + b)^{43} - (a - b)^{43} = 43a^{42}b + 794a^{41}b^2 + 16947a^{40}b^3 + 16947a^{39}b^4 + 794a^{38}b^5 + 43a^{37}b^6$ $(a + b)^{44} - (a - b)^{44} = 44a^{43}b + 836a^{42}b^2 + 18262a^{41}b^3 + 18262a^{40}b^4 + 836a^{39}b^5 + 44a^{38}b^6$ $(a + b)^{45} - (a - b)^{45} = 45a^{44}b + 880a^{43}b^2 + 19635a^{42}b^3 + 19635a^{41}b^4 + 880a^{40}b^5 + 45a^{39}b^6$ $(a + b)^{46} - (a - b)^{46} = 46a^{45}b + 926a^{44}b^2 + 21066a^{43}b^3 + 21066a^{42}b^4 + 926a^{41}b^5 + 46a^{40}b^6$ $(a + b)^{47} - (a - b)^{47} = 47a^{46}b + 974a^{45}b^2 + 22565a^{44}b^3 + 22565a^{43}b^4 + 974a^{42}b^5 + 47a^{41}b^6$ $(a + b)^{48} - (a - b)^{48} = 48a^{47}b + 1024a^{46}b^2 + 24132a^{45}b^3 + 24132a^{44}b^4 + 1024a^{43}b^5 + 48a^{42}b^6$ $(a + b)^{49} - (a - b)^{49} = 49a^{48}b + 1076a^{47}b^2 + 25767a^{46}b^3 + 25767a^{45}b^4 + 1076a^{44}b^5 + 49a^{43}b^6$ $(a + b)^{50} - (a - b)^{50} = 50a^{49}b + 1130a^{48}b^2 + 27480a^{47}b^3 + 27480a^{46}b^4 + 1130a^{45}b^5 + 50a^{44}b^6$ $(a + b)^{51} - (a - b)^{51} = 51a^{50}b + 1186a^{49}b^2 + 29271a^{48}b^3 + 29271a^{47}b^4 + 1186a^{46}b^5 + 51a^{45}b^6$ $(a + b)^{52} - (a - b)^{52} = 52a^{51}b + 1244a^{50}b^2 + 31140a^{49}b^3 + 31140a^{48}b^4 + 1244a^{47}b^5 + 52a^{46}b^6$ $(a + b)^{53} - (a - b)^{53} = 53a^{52}b + 1304a^{51}b^2 + 33089a^{50}b^3 + 33089a^{49}b^4 + 1304a^{48}b^5 + 53a^{47}b^6$ $(a + b)^{54} - (a - b)^{54} = 54a^{53}b + 1366a^{52}b^2 + 35118a^{51}b^3 + 35118a^{50}b^4 + 1366a^{49}b^5 + 54a^{48}b^6$ $(a + b)^{55} - (a - b)^{55} = 55a^{54}b + 1430a^{53}b^2 + 37237a^{52}b^3 + 37237a^{51}b^4 + 1430a^{50}b^5 + 55a^{49}b^6$ $(a + b)^{56} - (a - b)^{56} = 56a^{55}b + 1496a^{54}b^2 + 39436a^{53}b^3 + 39436a^{52}b^4 + 1496a^{51}b^5 + 56a^{50}b^6$ $(a + b)^{57} - (a - b)^{57} = 57a^{56}b + 1564a^{55}b^2 + 41715a^{54}b^3 + 41715a^{53}b^4 + 1564a^{52}b^5 + 57a^{51}b^6$ $(a + b)^{58} - (a - b)^{58} = 58a^{57}b + 1634a^{56}b^2 + 44084a^{55}b^3 + 44084a^{54}b^4 + 1634a^{53}b^5 + 58a^{52}b^6$ $(a + b)^{59} - (a - b)^{59} = 59a^{58}b + 1706a^{57}b^2 + 46533a^{56}b^3 + 46533a^{55}b^4 + 1706a^{54}b^5 + 59a^{53}b^6$ $(a + b)^{60} - (a - b)^{60} = 60a^{59}b + 1780a^{58}b^2 + 49072a^{57}b^3 + 49072a^{56}b^4 + 1780a^{55}b^5 + 60a^{54}b^6$ $(a + b)^{61} - (a - b)^{61} = 61a^{60}b + 1856a^{59}b^2 + 51701a^{58}b^3 + 51701a^{57}b^4 + 1856a^{56}b^5 + 61a^{55}b^6$ $(a + b)^{62} - (a - b)^{62} = 62a^{61}b + 1934a^{60}b^2 + 54420a^{59}b^3 + 54420a^{58}b^4 + 1934a^{57}b^5 + 62a^{56}b^6$ $(a + b)^{63} - (a - b)^{63} = 63a^{62}b + 2014a^{61}b^2 + 57219a^{60}b^3 + 57219a^{59}b^4 + 2014a^{58}b^5 + 63a^{57}b^6$ $(a + b)^{64} - (a - b)^{64} = 64a^{63}b + 2096a^{62}b^2 + 60108a^{61}b^3 + 60108a^{60}b^4 + 2096a^{59}b^5 + 64a^{58}b^6$ $(a + b)^{65} - (a - b)^{65} = 65a^{64}b + 2180a^{63}b^2 + 63087a^{62}b^3 + 63087a^{61}b^4 + 2180a^{60}b^5 + 65a^{59}b^6$ $(a + b)^{66} - (a - b)^{66} = 66a^{65}b + 2266a^{64}b^2 + 66146a^{63}b^3 + 66146a^{62}b^4 + 2266a^{61}b^5 + 66a^{60}b^6$ $(a + b)^{67} - (a - b)^{67} = 67a^{66}b + 2354a^{65}b^2 + 69285a^{64}b^3 + 69285a^{63}b^4 + 2354a^{62}b^5 + 67a^{61}b^6$ $(a + b)^{68} - (a - b)^{68} = 68a^{67}b + 2444a^{66}b^2 + 72504a^{65}b^3 + 72504a^{64}b^4 + 2444a^{63}b^5 + 68a^{62}b^6$ $(a + b)^{69} - (a - b)^{69} = 69a^{68}b + 2536a^{67}b^2 + 75803a^{66}b^3 + 75803a^{65}b^4 + 2536a^{64}b^5 + 69a^{63}b^6$ $(a + b)^{70} - (a - b)^{70} = 70a^{69}b + 2630a^{68}b^2 + 79182a^{67}b^3 + 79182a^{66}b^4 + 2630a^{65}b^5 + 70a^{64}b^6$ $(a + b)^{71} - (a - b)^{71} = 71a^{70}b + 2726a^{69}b^2 + 82641a^{68}b^3 + 82641a^{67}b^4 + 2726a^{66}b^5 + 71a^{65}b^6$ $(a + b)^{72} - (a - b)^{72} = 72a^{71}b + 2824a^{70}b^2 + 86180a^{69}b^3 + 86180a^{68}b^4 + 2824a^{67}b^5 + 72a^{66}b^6$ $(a + b)^{73} - (a - b)^{73} = 73a^{72}b + 2924a^{71}b^2 + 89809a^{70}b^3 + 89809a^{69}b^4 + 2924a^{68}b^5 + 73a^{67}b^6$ $(a + b)^{74} - (a - b)^{74} = 74a^{73}b + 3026a^{72}b^2 + 93528a^{71}b^3 + 93528a^{70}b^4 + 3026a^{69}b^5 + 74a^{68}b^6$ $(a + b)^{75} - (a - b)^{75} = 75a^{74}b + 3130a^{73}b^2 + 97337a^{72}b^3 + 97337a^{71}b^4 + 3130a^{70}b^5 + 75a^{69}b^6$ $(a + b)^{76} - (a - b)^{76} = 76a^{75}b + 3236a^{74}b^2 + 101236a^{73}b^3 + 101236a^{72}b^4 + 3236a^{71}b^5 + 76a^{70}b^6$ $(a + b)^{77} - (a - b)^{77} = 77a^{76}b + 3344a^{75}b^2 + 105225a^{74}b^3 + 105225a^{73}b^4 + 3344a^{72}b^5 + 77a^{71}b^6$ $(a + b)^{78} - (a - b)^{78} = 78a^{77}b + 3454a^{76}b^2 + 109304a^{75}b^3 + 109304a^{74}b^4 + 3454a^{73}b^5 + 78a^{72}b^6$ $(a + b)^{79} - (a - b)^{79} = 79a^{78}b + 3566a^{77}b^2 + 113473a^{76}b^3 + 113473a^{75}b^4 + 3566a^{74}b^5 + 79a^{73}b^6$ $(a + b)^{80} - (a - b)^{80} = 80a^{79}b + 3680a^{78}b^2 + 117732a^{77}b^3 + 117732a^{76}b^4 + 3680a^{75}b^5 + 80a^{74}b^6$ $(a + b)^{81} - (a - b)^{81} = 81a^{80}b + 3796a^{79}b^2 + 122081a^{78}b^3 + 122081a^{77}b^4 + 3796a^{76}b^5 + 81a^{75}b^6$ $(a + b)^{82} - (a - b)^{82} = 82a^{81}b + 3914a^{80}b^2 + 126520a^{79}b^3 + 126520a^{78}b^4 + 3914a^{77}b^5 + 82a^{76}b^6$ $(a + b)^{83} - (a - b)^{83} = 83a^{82}b + 4034a^{81}b^2 + 131049a^{80}b^3 + 131049a^{79}b^4 + 4034a^{78}b^5 + 83a^{77}b^6$ $(a + b)^{84} - (a - b)^{84} = 84a^{83}b + 4156a^{82}b^2 + 135668a^{81}b^3 + 135668a^{80}b^4 + 4156a^{79}b^5 + 84a^{78}b^6$ $(a + b)^{85} - (a - b)^{85} = 85a^{84}b + 4280a^{83}b^2 + 140377a^{82}b^3 + 140377a^{81}b^4 + 4280a^{80}b^5 + 85a^{79}b^6$ $(a + b)^{86} - (a - b)^{86} = 86a^{85}b + 4406a^{84}b^2 + 145176a^{83}b^3 + 145176a^{82}b^4 + 4406a^{81}b^5 + 86a^{80}b^6$ $(a + b)^{87} - (a - b)^{87} = 87a^{86}b + 4534a^{85}b^2 + 150065a^{84}b^3 + 150065a^{83}b^4 + 4534a^{82}b^5 + 87a^{81}b^6$ $(a + b)^{88} - (a - b)^{88} = 88a^{87}b + 4664a^{86}b^2 + 155044a^{85}b^3 + 155044a^{84}b^4 + 4664a^{83}b^5 + 88a^{82}b^6$ $(a + b)^{89} - (a - b)^{89} = 89a^{88}b + 4796a^{87}b^2 + 160113a^{86}b^3 + 160113a^{85}b^4 + 4796a^{84}b^5 + 89a^{83}b^6$ $(a + b)^{90} - (a - b)^{90} = 90a^{89}b + 4930a^{88}b^2 + 165272a^{87}b^3 + 165272a^{86}b^4 + 4930a^{85}b^5 + 90a^{84}b^6$ $(a + b)^{91} - (a - b)^{91} = 91a^{90}b + 5066a^{89}b^2 + 170521a^{88}b^3 + 170521a^{87}b^4 + 5066a^{86}b^5 + 91a^{85}b^6$ $(a + b)^{92} - (a - b)^{92} = 92a^{91}b + 5204a^{90}b^2 + 175860a^{89}b^3 + 175860a^{88}b^4 + 5204a^{87}b^5 + 92a^{86}b^6$ $(a + b)^{93} - (a - b)^{93} = 93a^{92}b + 5344a^{91}b^2 + 181289a^{90}b^3 + 181289a^{89}b^4 + 5344a^{88}b^5 + 93a^{87}b^6$ $(a + b)^{94} - (a - b)^{94} = 94a^{93}b + 5486a^{92}b^2 + 186808a^{91}b^3 + 186808a^{90}b^4 + 5486a^{89}b^5 + 94a^{88}b^6$ $(a + b)^{95} - (a - b)^{95} = 95a^{94}b + 5630a^{93}b^2 + 192417a^{92}b^3 + 192417a^{91}b^4 + 5630a^{90}b^5 + 95a^{89}b^6$ $(a + b)^{96} - (a - b)^{96} = 96a^{95}b + 5776a^{94}b^2 + 198116a^{93}b^3 + 198116a^{92}b^4 + 5776a^{91}b^5 + 96a^{90}b^6$ $(a + b)^{97} - (a - b)^{97} = 97a^{96}b + 5924a^{95}b^2 + 203905a^{94}b^3 + 203905a^{93}b^4 + 5924a^{92}b^5 + 97a^{91}b^6$ $(a + b)^{98} - (a - b)^{98} = 98a^{97}b + 6074a^{96}b^2 + 209784a^{95}b^3 + 209784a^{94}b^4 + 6074a^{93}b^5 + 98a^{92}b^6$ $(a + b)^{99} - (a - b)^{99} = 99a^{98}b + 6226a^{97}b^2 + 215753a^{96}b^3 + 215753a^{95}b^4 + 6226a^{94}b^5 + 99a^{93}b^6$ $(a + b)^{100} - (a - b)^{100} = 100a^{99}b + 6380a^{98}b^2 + 221812a^{97}b^3 + 221812a^{96}b^4 + 6380a^{95}b^5 + 100a^{94}b^6$

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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 $a^{2k+1} - b^{2k+1} = (a - b)(a^{2k} + a^{2k-1}b + a^{2k-2}b^2 + \dots + ab^{2k-1} + b^{2k})$ $a^2 - b^2 = (a + b)(a - b)$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ $a^4 - b^4 = (a - b)(a + b)(a^2 + b^2)$ $a^4 + b^4 = (a + b)(a - b)(a^2 + ab + b^2)$ $a^5 - b^5 = (a - b)(a^4 + a^3b + a^2b^2 + ab^3 + b^4)$ $a^5 + b^5 = (a + b)(a^4 - a^3b + a^2b^2 - ab^3 + b^4)$ $a^6 - b^6 = (a - b)(a + b)(a^2 + ab + b^2)(a^2 - ab + b^2)$ $a^6 + b^6 = (a + b)(a - b)(a^2 + ab + b^2)(a^2 + ab + b^2)$ $a^7 - b^7 = (a - b)(a^6 + a^5b + a^4b^2 + a^3b^3 + a^2b^4 + ab^5 + b^6)$ $a^7 + b^7 = (a + b)(a^6 - a^5b + a^4b^2 - a^3b^3 + a^2b^4 - ab^5 + b^6)$ $a^8 - b^8 = (a - b)(a + b)(a^2 + b^2)(a^4 + a^2b^2 + b^4)$ $a^8 + b^8 = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^4 + a^2b^2 + b^4)$ $a^9 - b^9 = (a - b)(a^8 + a^7b + a^6b^2 + a^5b^3 + a^4b^4 + a^3b^5 + a^2b^6 + ab^7 + b^8)$ $a^9 + b^9 = (a + b)(a^8 - a^7b + a^6b^2 - a^5b^3 + a^4b^4 - a^3b^5 + a^2b^6 - ab^7 + b^8)$ $a^{10} - b^{10} = (a - b)(a + b)(a^2 + b^2)(a^4 + a^2b^2 + b^4)(a^4 - a^2b^2 + b^4)$ $a^{10} + b^{10} = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^4 + a^2b^2 + b^4)(a^4 + a^2b^2 + b^4)$ $a^{11} - b^{11} = (a - b)(a^{10} + a^9b + a^8b^2 + a^7b^3 + a^6b^4 + a^5b^5 + a^4b^6 + a^3b^7 + a^2b^8 + ab^9 + b^{10})$ $a^{11} + b^{11} = (a + b)(a^{10} - a^9b + a^8b^2 - a^7b^3 + a^6b^4 - a^5b^5 + a^4b^6 - a^3b^7 + a^2b^8 - ab^9 + b^{10})$ $a^{12} - b^{12} = (a - b)(a + b)(a^2 + b^2)(a^4 + a^2b^2 + b^4)(a^4 - a^2b^2 + b^4)$ $a^{12} + b^{12} = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^4 + a^2b^2 + b^4)(a^4 + a^2b^2 + b^4)$ $a^{13} - b^{13} = (a - b)(a^{12} + a^{11}b + a^{10}b^2 + a^9b^3 + a^8b^4 + a^7b^5 + a^6b^6 + a^5b^7 + a^4b^8 + a^3b^9 + a^2b^{10} + ab^{11} + b^{12})$ $a^{13} + b^{13} = (a + b)(a^{12} - a^{11}b + a^{10}b^2 - a^9b^3 + a^8b^4 - a^7b^5 + a^6b^6 - a^5b^7 + a^4b^8 - a^3b^9 + a^2b^{10} - ab^{11} + b^{12})$ $a^{14} - b^{14} = (a - b)(a + b)(a^2 + b^2)(a^4 + a^2b^2 + b^4)(a^4 - a^2b^2 + b^4)$ $a^{14} + b^{14} = (a + b)(a - b)(a^2 + ab + b^2)(a^2 - ab + b^2)(a^4 + a^2b^2 + b^4)(a^4 + a^2b^2 + b^4)$

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