

1.10) $\int (x^2-1) dx = \int x^2 dx - \int 1 dx = \frac{1}{3}x^3 - x + C$

1.11) $\int (x^2-1)^2 dx = \int (x^4 - 2x^2 + 1) dx = \frac{1}{5}x^5 - \frac{2}{3}x^3 + x + C$

1.12) $\int (x^2-1)^3 dx = \int (x^6 - 3x^4 + 3x^2 - 1) dx = \frac{1}{7}x^7 - \frac{3}{5}x^5 + \frac{3}{3}x^3 - x + C$

1.13) $\int (x^2-1)^4 dx = \int (x^8 - 4x^6 + 6x^4 - 4x^2 + 1) dx = \frac{1}{9}x^9 - \frac{4}{7}x^7 + \frac{6}{5}x^5 - \frac{4}{3}x^3 + x + C$

1.14) $\int (x^2-1)^5 dx = \int (x^{10} - 5x^8 + 10x^6 - 10x^4 + 5x^2 - 1) dx = \frac{1}{11}x^{11} - \frac{5}{9}x^9 + \frac{10}{7}x^7 - \frac{10}{5}x^5 + \frac{5}{3}x^3 - x + C$

1.15) $\int (x^2-1)^6 dx = \int (x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 + 1) dx = \frac{1}{13}x^{13} - \frac{6}{11}x^{11} + \frac{15}{9}x^9 - \frac{20}{7}x^7 + \frac{15}{5}x^5 - \frac{6}{3}x^3 + x + C$

1.16) $\int (x^2-1)^7 dx = \int (x^{14} - 7x^{12} + 21x^{10} - 35x^8 + 35x^6 - 21x^4 + 7x^2 - 1) dx = \frac{1}{15}x^{15} - \frac{7}{13}x^{13} + \frac{21}{11}x^{11} - \frac{35}{9}x^9 + \frac{35}{7}x^7 - \frac{21}{5}x^5 + \frac{7}{3}x^3 - x + C$

1.17) $\int (x^2-1)^8 dx = \int (x^{16} - 8x^{14} + 28x^{12} - 56x^{10} + 56x^8 - 28x^6 + 8x^4 - 1) dx = \frac{1}{17}x^{17} - \frac{8}{15}x^{15} + \frac{28}{13}x^{13} - \frac{56}{11}x^{11} + \frac{56}{9}x^9 - \frac{28}{7}x^7 + \frac{8}{5}x^5 - x + C$

1.18) $\int (x^2-1)^9 dx = \int (x^{18} - 9x^{16} + 36x^{14} - 84x^{12} + 84x^{10} - 36x^8 + 9x^6 - 1) dx = \frac{1}{19}x^{19} - \frac{9}{17}x^{17} + \frac{36}{15}x^{15} - \frac{84}{13}x^{13} + \frac{84}{11}x^{11} - \frac{36}{9}x^9 + \frac{9}{7}x^7 - x + C$

1.19) $\int (x^2-1)^{10} dx = \int (x^{20} - 10x^{18} + 45x^{16} - 120x^{14} + 120x^{12} - 45x^{10} + 10x^8 - 1) dx = \frac{1}{21}x^{21} - \frac{10}{19}x^{19} + \frac{45}{17}x^{17} - \frac{120}{15}x^{15} + \frac{120}{13}x^{13} - \frac{45}{11}x^{11} + \frac{10}{9}x^9 - x + C$

1.20) $\int (x^2-1)^{11} dx = \int (x^{22} - 11x^{20} + 66x^{18} - 220x^{16} + 220x^{14} - 66x^{12} + 11x^{10} - 1) dx = \frac{1}{23}x^{23} - \frac{11}{21}x^{21} + \frac{66}{19}x^{19} - \frac{220}{17}x^{17} + \frac{220}{15}x^{15} - \frac{66}{13}x^{13} + \frac{11}{11}x^{11} - x + C$

1.21) $\int (x^2-1)^{12} dx = \int (x^{24} - 12x^{22} + 78x^{20} - 330x^{18} + 330x^{16} - 78x^{14} + 12x^{12} - 1) dx = \frac{1}{25}x^{25} - \frac{12}{23}x^{23} + \frac{78}{21}x^{21} - \frac{330}{19}x^{19} + \frac{330}{17}x^{17} - \frac{78}{15}x^{15} + \frac{12}{13}x^{13} - x + C$

1.22) $\int (x^2-1)^{13} dx = \int (x^{26} - 13x^{24} + 91x^{22} - 429x^{20} + 429x^{18} - 91x^{16} + 13x^{14} - 1) dx = \frac{1}{27}x^{27} - \frac{13}{25}x^{25} + \frac{91}{23}x^{23} - \frac{429}{21}x^{21} + \frac{429}{19}x^{19} - \frac{91}{17}x^{17} + \frac{13}{15}x^{15} - x + C$

1.23) $\int (x^2-1)^{14} dx = \int (x^{28} - 14x^{26} + 98x^{24} - 546x^{22} + 546x^{20} - 98x^{18} + 14x^{16} - 1) dx = \frac{1}{29}x^{29} - \frac{14}{27}x^{27} + \frac{98}{25}x^{25} - \frac{546}{23}x^{23} + \frac{546}{21}x^{21} - \frac{98}{19}x^{19} + \frac{14}{17}x^{17} - x + C$

1.24) $\int (x^2-1)^{15} dx = \int (x^{30} - 15x^{28} + 105x^{26} - 672x^{24} + 672x^{22} - 105x^{20} + 15x^{18} - 1) dx = \frac{1}{31}x^{31} - \frac{15}{29}x^{29} + \frac{105}{27}x^{27} - \frac{672}{25}x^{25} + \frac{672}{23}x^{23} - \frac{105}{21}x^{21} + \frac{15}{19}x^{19} - x + C$

1.25) $\int (x^2-1)^{16} dx = \int (x^{32} - 16x^{30} + 112x^{28} - 768x^{26} + 768x^{24} - 112x^{22} + 16x^{20} - 1) dx = \frac{1}{33}x^{33} - \frac{16}{31}x^{31} + \frac{112}{29}x^{29} - \frac{768}{27}x^{27} + \frac{768}{25}x^{25} - \frac{112}{23}x^{23} + \frac{16}{21}x^{21} - x + C$

1.26) $\int (x^2-1)^{17} dx = \int (x^{34} - 17x^{32} + 122x^{30} - 858x^{28} + 858x^{26} - 122x^{24} + 17x^{22} - 1) dx = \frac{1}{35}x^{35} - \frac{17}{33}x^{33} + \frac{122}{31}x^{31} - \frac{858}{29}x^{29} + \frac{858}{27}x^{27} - \frac{122}{25}x^{25} + \frac{17}{23}x^{23} - x + C$

1.27) $\int (x^2-1)^{18} dx = \int (x^{36} - 18x^{34} + 126x^{32} - 900x^{30} + 900x^{28} - 126x^{26} + 18x^{24} - 1) dx = \frac{1}{37}x^{37} - \frac{18}{35}x^{35} + \frac{126}{33}x^{33} - \frac{900}{31}x^{31} + \frac{900}{29}x^{29} - \frac{126}{27}x^{27} + \frac{18}{25}x^{25} - x + C$

1.28) $\int (x^2-1)^{19} dx = \int (x^{38} - 19x^{36} + 133x^{34} - 969x^{32} + 969x^{30} - 133x^{28} + 19x^{26} - 1) dx = \frac{1}{39}x^{39} - \frac{19}{37}x^{37} + \frac{133}{35}x^{35} - \frac{969}{33}x^{33} + \frac{969}{31}x^{31} - \frac{133}{29}x^{29} + \frac{19}{27}x^{27} - x + C$

1.29) $\int (x^2-1)^{20} dx = \int (x^{40} - 20x^{38} + 140x^{36} - 1020x^{34} + 1020x^{32} - 140x^{30} + 20x^{28} - 1) dx = \frac{1}{41}x^{41} - \frac{20}{39}x^{39} + \frac{140}{37}x^{37} - \frac{1020}{35}x^{35} + \frac{1020}{33}x^{33} - \frac{140}{31}x^{31} + \frac{20}{29}x^{29} - x + C$

1.30) $\int (x^2-1)^{21} dx = \int (x^{42} - 21x^{40} + 147x^{38} - 1092x^{36} + 1092x^{34} - 147x^{32} + 21x^{30} - 1) dx = \frac{1}{43}x^{43} - \frac{21}{41}x^{41} + \frac{147}{39}x^{39} - \frac{1092}{37}x^{37} + \frac{1092}{35}x^{35} - \frac{147}{33}x^{33} + \frac{21}{31}x^{31} - x + C$

1.31) $\int (x^2-1)^{22} dx = \int (x^{44} - 22x^{42} + 154x^{40} - 1122x^{38} + 1122x^{36} - 154x^{34} + 22x^{32} - 1) dx = \frac{1}{45}x^{45} - \frac{22}{43}x^{43} + \frac{154}{41}x^{41} - \frac{1122}{39}x^{39} + \frac{1122}{37}x^{37} - \frac{154}{35}x^{35} + \frac{22}{33}x^{33} - x + C$

1.32) $\int (x^2-1)^{23} dx = \int (x^{46} - 23x^{44} + 161x^{42} - 1177x^{40} + 1177x^{38} - 161x^{36} + 23x^{34} - 1) dx = \frac{1}{47}x^{47} - \frac{23}{45}x^{45} + \frac{161}{43}x^{43} - \frac{1177}{41}x^{41} + \frac{1177}{39}x^{39} - \frac{161}{37}x^{37} + \frac{23}{35}x^{35} - x + C$

1.33) $\int (x^2-1)^{24} dx = \int (x^{48} - 24x^{46} + 168x^{44} - 1224x^{42} + 1224x^{40} - 168x^{38} + 24x^{36} - 1) dx = \frac{1}{49}x^{49} - \frac{24}{47}x^{47} + \frac{168}{45}x^{45} - \frac{1224}{43}x^{43} + \frac{1224}{41}x^{41} - \frac{168}{39}x^{39} + \frac{24}{37}x^{37} - x + C$

1.34) $\int (x^2-1)^{25} dx = \int (x^{50} - 25x^{48} + 175x^{46} - 1275x^{44} + 1275x^{42} - 175x^{40} + 25x^{38} - 1) dx = \frac{1}{51}x^{51} - \frac{25}{49}x^{49} + \frac{175}{47}x^{47} - \frac{1275}{45}x^{45} + \frac{1275}{43}x^{43} - \frac{175}{41}x^{41} + \frac{25}{39}x^{39} - x + C$

1.35) $\int (x^2-1)^{26} dx = \int (x^{52} - 26x^{50} + 182x^{48} - 1326x^{46} + 1326x^{44} - 182x^{42} + 26x^{40} - 1) dx = \frac{1}{53}x^{53} - \frac{26}{51}x^{51} + \frac{182}{49}x^{49} - \frac{1326}{47}x^{47} + \frac{1326}{45}x^{45} - \frac{182}{43}x^{43} + \frac{26}{41}x^{41} - x + C$

1.36) $\int (x^2-1)^{27} dx = \int (x^{54} - 27x^{52} + 189x^{50} - 1377x^{48} + 1377x^{46} - 189x^{44} + 27x^{42} - 1) dx = \frac{1}{55}x^{55} - \frac{27}{53}x^{53} + \frac{189}{51}x^{51} - \frac{1377}{49}x^{49} + \frac{1377}{47}x^{47} - \frac{189}{45}x^{45} + \frac{27}{43}x^{43} - x + C$

1.37) $\int (x^2-1)^{28} dx = \int (x^{56} - 28x^{54} + 196x^{52} - 1400x^{50} + 1400x^{48} - 196x^{46} + 28x^{44} - 1) dx = \frac{1}{57}x^{57} - \frac{28}{55}x^{55} + \frac{196}{53}x^{53} - \frac{1400}{51}x^{51} + \frac{1400}{49}x^{49} - \frac{196}{47}x^{47} + \frac{28}{45}x^{45} - x + C$

1.38) $\int (x^2-1)^{29} dx = \int (x^{58} - 29x^{56} + 203x^{54} - 1456x^{52} + 1456x^{50} - 203x^{48} + 29x^{46} - 1) dx = \frac{1}{59}x^{59} - \frac{29}{57}x^{57} + \frac{203}{55}x^{55} - \frac{1456}{53}x^{53} + \frac{1456}{51}x^{51} - \frac{203}{49}x^{49} + \frac{29}{47}x^{47} - x + C$

1.39) $\int (x^2-1)^{30} dx = \int (x^{60} - 30x^{58} + 210x^{56} - 1530x^{54} + 1530x^{52} - 210x^{50} + 30x^{48} - 1) dx = \frac{1}{61}x^{61} - \frac{30}{59}x^{59} + \frac{210}{57}x^{57} - \frac{1530}{55}x^{55} + \frac{1530}{53}x^{53} - \frac{210}{51}x^{51} + \frac{30}{49}x^{49} - x + C$

1.40) $\int (x^2-1)^{31} dx = \int (x^{62} - 31x^{60} + 217x^{58} - 1602x^{56} + 1602x^{54} - 217x^{52} + 31x^{50} - 1) dx = \frac{1}{63}x^{63} - \frac{31}{61}x^{61} + \frac{217}{59}x^{59} - \frac{1602}{57}x^{57} + \frac{1602}{55}x^{55} - \frac{217}{53}x^{53} + \frac{31}{51}x^{51} - x + C$

1.41) $\int (x^2-1)^{32} dx = \int (x^{64} - 32x^{62} + 224x^{60} - 1664x^{58} + 1664x^{56} - 224x^{54} + 32x^{52} - 1) dx = \frac{1}{65}x^{65} - \frac{32}{63}x^{63} + \frac{224}{61}x^{61} - \frac{1664}{59}x^{59} + \frac{1664}{57}x^{57} - \frac{224}{55}x^{55} + \frac{32}{53}x^{53} - x + C$

1.42) $\int (x^2-1)^{33} dx = \int (x^{66} - 33x^{64} + 231x^{62} - 1716x^{60} + 1716x^{58} - 231x^{56} + 33x^{54} - 1) dx = \frac{1}{67}x^{67} - \frac{33}{65}x^{65} + \frac{231}{63}x^{63} - \frac{1716}{61}x^{61} + \frac{1716}{59}x^{59} - \frac{231}{57}x^{57} + \frac{33}{55}x^{55} - x + C$

1.43) $\int (x^2-1)^{34} dx = \int (x^{68} - 34x^{66} + 238x^{64} - 1768x^{62} + 1768x^{60} - 238x^{58} + 34x^{56} - 1) dx = \frac{1}{69}x^{69} - \frac{34}{67}x^{67} + \frac{238}{65}x^{65} - \frac{1768}{63}x^{63} + \frac{1768}{61}x^{61} - \frac{238}{59}x^{59} + \frac{34}{57}x^{57} - x + C$

1.44) $\int (x^2-1)^{35} dx = \int (x^{70} - 35x^{68} + 245x^{66} - 1820x^{64} + 1820x^{62} - 245x^{60} + 35x^{58} - 1) dx = \frac{1}{71}x^{71} - \frac{35}{69}x^{69} + \frac{245}{67}x^{67} - \frac{1820}{65}x^{65} + \frac{1820}{63}x^{63} - \frac{245}{61}x^{61} + \frac{35}{59}x^{59} - x + C$

1.45) $\int (x^2-1)^{36} dx = \int (x^{72} - 36x^{70} + 252x^{68} - 1872x^{66} + 1872x^{64} - 252x^{62} + 36x^{60} - 1) dx = \frac{1}{73}x^{73} - \frac{36}{71}x^{71} + \frac{252}{69}x^{69} - \frac{1872}{67}x^{67} + \frac{1872}{65}x^{65} - \frac{252}{63}x^{63} + \frac{36}{61}x^{61} - x + C$

1.46) $\int (x^2-1)^{37} dx = \int (x^{74} - 37x^{72} + 259x^{70} - 1911x^{68} + 1911x^{66} - 259x^{64} + 37x^{62} - 1) dx = \frac{1}{75}x^{75} - \frac{37}{73}x^{73} + \frac{259}{71}x^{71} - \frac{1911}{69}x^{69} + \frac{1911}{67}x^{67} - \frac{259}{65}x^{65} + \frac{37}{63}x^{63} - x + C$

1.47) $\int (x^2-1)^{38} dx = \int (x^{76} - 38x^{74} + 266x^{72} - 1978x^{70} + 1978x^{68} - 266x^{66} + 38x^{64} - 1) dx = \frac{1}{77}x^{77} - \frac{38}{75}x^{75} + \frac{266}{73}x^{73} - \frac{1978}{71}x^{71} + \frac{1978}{69}x^{69} - \frac{266}{67}x^{67} + \frac{38}{65}x^{65} - x + C$

1.48) $\int (x^2-1)^{39} dx = \int (x^{78} - 39x^{76} + 273x^{74} - 2016x^{72} + 2016x^{70} - 273x^{68} + 39x^{66} - 1) dx = \frac{1}{79}x^{79} - \frac{39}{77}x^{77} + \frac{273}{75}x^{75} - \frac{2016}{73}x^{73} + \frac{2016}{71}x^{71} - \frac{273}{69}x^{69} + \frac{39}{67}x^{67} - x + C$

1.49) $\int (x^2-1)^{40} dx = \int (x^{80} - 40x^{78} + 280x^{76} - 2080x^{74} + 2080x^{72} - 280x^{70} + 40x^{68} - 1) dx = \frac{1}{81}x^{81} - \frac{40}{79}x^{79} + \frac{280}{77}x^{77} - \frac{2080}{75}x^{75} + \frac{2080}{73}x^{73} - \frac{280}{71}x^{71} + \frac{40}{69}x^{69} - x + C$

1.50) $\int (x^2-1)^{41} dx = \int (x^{82} - 41x^{80} + 286x^{78} - 2121x^{76} + 2121x^{74} - 286x^{72} + 41x^{70} - 1) dx = \frac{1}{83}x^{83} - \frac{41}{81}x^{81} + \frac{286}{79}x^{79} - \frac{2121}{77}x^{77} + \frac{2121}{75}x^{75} - \frac{286}{73}x^{73} + \frac{41}{71}x^{71} - x + C$

1.51) $\int (x^2-1)^{42} dx = \int (x^{84} - 42x^{82} + 294x^{80} - 2184x^{78} + 2184x^{76} - 294x^{74} + 42x^{72} - 1) dx = \frac{1}{85}x^{85} - \frac{42}{83}x^{83} + \frac{294}{81}x^{81} - \frac{2184}{79}x^{79} + \frac{2184}{77}x^{77} - \frac{294}{75}x^{75} + \frac{42}{73}x^{73} - x + C$

1.52) $\int (x^2-1)^{43} dx = \int (x^{86} - 43x^{84} + 301x^{82} - 2238x^{80} + 2238x^{78} - 301x^{76} + 43x^{74} - 1) dx = \frac{1}{87}x^{87} - \frac{43}{85}x^{85} + \frac{301}{83}x^{83} - \frac{2238}{81}x^{81} + \frac{2238}{79}x^{79} - \frac{301}{77}x^{77} + \frac{43}{75}x^{75} - x + C$

1.53) $\int (x^2-1)^{44} dx = \int (x^{88} - 44x^{86} + 308x^{84} - 2288x^{82} + 2288x^{80} - 308x^{78} + 44x^{76} - 1) dx = \frac{1}{89}x^{89} - \frac{44}{87}x^{87} + \frac{308}{85}x^{85} - \frac{2288}{83}x^{83} + \frac{2288}{81}x^{81} - \frac{308}{79}x^{79} + \frac{44}{77}x^{77} - x + C$

1.54) $\int (x^2-1)^{45} dx = \int (x^{90} - 45x^{88} + 315x^{86} - 2334x^{84} + 2334x^{82} - 315x^{80} + 45x^{78} - 1) dx = \frac{1}{91}x^{91} - \frac{45}{89}x^{89} + \frac{315}{87}x^{87} - \frac{2334}{85}x^{85} + \frac{2334}{83}x^{83} - \frac{315}{81}x^{81} + \frac{45}{79}x^{79} - x + C$

1.55) $\int (x^2-1)^{46} dx = \int (x^{92} - 46x^{90} + 322x^{88} - 2376x^{86} + 2376x^{84} - 322x^{82} + 46x^{80} - 1) dx = \frac{1}{93}x^{93} - \frac{46}{91}x^{91} + \frac{322}{89}x^{89} - \frac{2376}{87}x^{87} + \frac{2376}{85}x^{85} - \frac{322}{83}x^{83} + \frac{46}{81}x^{81} - x + C$

1.56) $\int (x^2-1)^{47} dx = \int (x^{94} - 47x^{92} + 329x^{90} - 2414x^{88} + 2414x^{86} - 329x^{84} + 47x^{82} - 1) dx = \frac{1}{95}x^{95} - \frac{47}{93}x^{93} + \frac{329}{91}x^{91} - \frac{2414}{89}x^{89} + \frac{2414}{87}x^{87} - \frac{329}{85}x^{85} + \frac{47}{83}x^{83} - x + C$

1.57) $\int (x^2-1)^{48} dx = \int (x^{96} - 48x^{94} + 336x^{92} - 2448x^{90} + 2448x^{88} - 336x^{86} + 48x^{84} - 1) dx = \frac{1}{97}x^{97} - \frac{48}{95}x^{95} + \frac{336}{93}x^{93} - \frac{2448}{91}x^{89} + \frac{2448}{89}x^{87} - \frac{336}{87}x^{85} + \frac{48}{85}x^{83} - x + C$

1.58) $\int (x^2-1)^{49} dx = \int (x^{98} - 49x^{96} + 343x^{94} - 2478x^{92} + 2478x^{90} - 343x^{88} + 49x^{86} - 1) dx = \frac{1}{99}x^{99} - \frac{49}{97}x^{97} + \frac{343}{95}x^{95} - \frac{2478}{93}x^{93} + \frac{2478}{91}x^{91} - \frac{343}{89}x^{89} + \frac{49}{87}x^{87} - x + C$

1.59) $\int (x^2-1)^{50} dx = \int (x^{100} - 50x^{98} + 350x^{96} - 2500x^{94} + 2500x^{92} - 350x^{90} + 50x^{88} - 1) dx = \frac{1}{101}x^{101} - \frac{50}{99}x^{99} + \frac{350}{97}x^{97} - \frac{2500}{95}x^{95} + \frac{2500}{93}x^{93} - \frac{350}{91}x^{91} + \frac{50}{89}x^{89} - x + C$

1.60) $\int (x^2-1)^{51} dx = \int (x^{102} - 51x^{100} + 357x^{98} - 2526x^{96} + 2526x^{94} - 357x^{92} + 51x^{90} - 1) dx = \frac{1}{103}x^{103} - \frac{51}{101}x^{101} + \frac{357}{99}x^{99} - \frac{2526}{97}x^{97} + \frac{2526}{95}x^{95} - \frac{357}{93}x^{93} + \frac{51}{91}x^{91} - x + C$

1.61) $\int (x^2-1)^{52} dx = \int (x^{104} - 52x^{102} + 364x^{100} - 2552x^{98} + 2552x^{96} - 364x^{94} + 52x^{92} - 1) dx = \frac{1}{105}x^{105} - \frac{52}{103}x^{103} + \frac{364}{101}x^{101} - \frac{2552}{99}x^{99} + \frac{2552}{97}x^{97} - \frac{364}{95}x^{95} + \frac{52}{93}x^{93} - x + C$

1.62) $\int (x^2-1)^{53} dx = \int (x^{106} - 53x^{104} + 371x^{102} - 2574x^{100} + 2574x^{98} - 371x^{96} + 53x^{94} - 1) dx = \frac{1}{107}x^{107} - \frac{53}{105}x^{105} + \frac{371}{103}x^{103} - \frac{2574}{101}x^{101} + \frac{2574}{99}x^{99} - \frac{371}{97}x^{97} + \frac{53}{95}x^{95} - x + C$

1.63) $\int (x^2-1)^{54} dx = \int (x^{108} - 54x^{106} + 378x^{104} - 2592x^{102} + 2592x^{100} - 378x^{98} + 54x^{96} - 1) dx = \frac{1}{109}x^{109} - \frac{54}{107}x^{107} + \frac{378}{105}x^{105} - \frac{2592}{103}x^{103} + \frac{2592}{101}x^{101} - \frac{378}{99}x^{99} + \frac{54}{97}x^{97} - x + C$

1.64) $\int (x^2-1)^{55} dx = \int (x^{110} - 55x^{108} + 385x^{106} - 2610x^{104} + 2610x^{102} - 385x^{100} + 55x^{98} - 1) dx = \frac{1}{111}x^{111} - \frac{55}{109}x^{109} + \frac{385}{107}x^{107} - \frac{2610}{105}x^{105} + \frac{2610}{103}x^{103} - \frac{385}{101}x^{101} + \frac{55}{99}x^{99} - x + C$

1.65) $\int (x^2-1)^{56} dx = \int (x^{112} - 56x^{110} + 392x^{108} - 2632x^{106} + 2632x^{104} - 392x^{102} + 56x^{100} - 1) dx = \frac{1}{113}x^{113} - \frac{56}{111}x^{111} + \frac{392}{109}x^{109} - \frac{2632}{107}x^{107} + \frac{2632}{105}x^{105} - \frac{392}{103}x^{103} + \frac{56}{101}x^{101} - x + C$

1.66) $\int (x^2-1)^{57} dx = \int (x^{114} - 57x^{112} + 399x^{110} - 2652x^{108} + 2652x^{106} - 399x^{104} + 57x^{102} - 1) dx = \frac{1}{115}x^{115} - \frac{57}{113}x^{113} + \frac{399}{111}x^{111} - \frac{2652}{109}x^{109} + \frac{2652}{107}x^{107} - \frac{399}{105}x^{105} + \frac{57}{103}x^{103} - x + C$

1.67) $\int (x^2-1)^{58} dx = \int (x^{116} - 58x^{114} + 406x^{112} - 2670x^{110} + 2670x^{108} - 406x^{106} + 58x^{104} - 1) dx = \frac{1}{117}x^{117} - \frac{58}{115}x^{115} + \frac{406}{113}x^{113} - \frac{2670}{111}x^{111} + \frac{2670}{109}x^{109} - \frac{406}{107}x^{107} + \frac{58}{105}x^{105} - x + C$

1.68) $\int (x^2-1)^{59} dx = \int (x^{118} - 59x^{116} + 413x^{114} - 2688x^{112} + 2688x^{110} - 413x^{108} + 59x^{106} - 1) dx = \frac{1}{119}x^{119} - \frac{59}{117}x^{117} + \frac{413}{115}x^{115} - \frac{2688}{113}x^{113} + \frac{2688}{111}x^{111} - \frac{413}{109}x^{109} + \frac{59}{107}x^{107} - x + C$

1.69) $\int (x^2-1)^{60} dx = \int (x^{120} - 60x^{118} + 420x^{116} - 2700x^{114} + 2700x^{112} - 420x^{110} + 60x^{108} - 1) dx = \frac{1}{121}x^{121} - \frac{60}{119}x^{119} + \frac{420}{117}x^{117} - \frac{2700}{115}x^{115} + \frac{2700}{113}x^{113} - \frac{420}{111}x^{111} + \frac{60}{109$