



الثانوية العامة

معلم خبير

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مراجعة الجبر والهندسة الفراغية

حل الجبر والهندسة الفراغية (2)

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حلول النموذج الثاني

أولا حلول الجبر

(1) $2x^2 - 4x + 2 = 0$ $\Rightarrow x^2 - 2x + 1 = 0$ $\Rightarrow (x-1)^2 = 0$ $\Rightarrow x = 1$

(2) $x^2 + 3x + 2 = 0$ $\Rightarrow (x+1)(x+2) = 0$ $\Rightarrow x = -1, -2$

(3) $x^2 - 5x + 6 = 0$ $\Rightarrow (x-2)(x-3) = 0$ $\Rightarrow x = 2, 3$

(4) $x^2 + 7x + 10 = 0$ $\Rightarrow (x+2)(x+5) = 0$ $\Rightarrow x = -2, -5$

(5) $x^2 - 9x + 14 = 0$ $\Rightarrow (x-2)(x-7) = 0$ $\Rightarrow x = 2, 7$

(6) $x^2 + 11x + 28 = 0$ $\Rightarrow (x+4)(x+7) = 0$ $\Rightarrow x = -4, -7$

(7) $x^2 - 13x + 40 = 0$ $\Rightarrow (x-5)(x-8) = 0$ $\Rightarrow x = 5, 8$

(8) $x^2 + 15x + 50 = 0$ $\Rightarrow (x+5)(x+10) = 0$ $\Rightarrow x = -5, -10$

(9) $x^2 - 17x + 60 = 0$ $\Rightarrow (x-4)(x-13) = 0$ $\Rightarrow x = 4, 13$

(10) $x^2 + 19x + 84 = 0$ $\Rightarrow (x+7)(x+12) = 0$ $\Rightarrow x = -7, -12$

(11) $x^2 - 21x + 98 = 0$ $\Rightarrow (x-7)(x-14) = 0$ $\Rightarrow x = 7, 14$

(12) $x^2 + 23x + 112 = 0$ $\Rightarrow (x+8)(x+14) = 0$ $\Rightarrow x = -8, -14$

(13) $x^2 - 25x + 120 = 0$ $\Rightarrow (x-5)(x-24) = 0$ $\Rightarrow x = 5, 24$

(14) $x^2 + 27x + 168 = 0$ $\Rightarrow (x+7)(x+24) = 0$ $\Rightarrow x = -7, -24$

(15) $x^2 - 29x + 180 = 0$ $\Rightarrow (x-9)(x-20) = 0$ $\Rightarrow x = 9, 20$

(16) $x^2 + 31x + 210 = 0$ $\Rightarrow (x+6)(x+35) = 0$ $\Rightarrow x = -6, -35$

(17) $x^2 - 33x + 220 = 0$ $\Rightarrow (x-10)(x-23) = 0$ $\Rightarrow x = 10, 23$

(18) $x^2 + 35x + 252 = 0$ $\Rightarrow (x+9)(x+28) = 0$ $\Rightarrow x = -9, -28$

(19) $x^2 - 37x + 260 = 0$ $\Rightarrow (x-13)(x-24) = 0$ $\Rightarrow x = 13, 24$

(20) $x^2 + 39x + 280 = 0$ $\Rightarrow (x+7)(x+40) = 0$ $\Rightarrow x = -7, -40$

(21) $x^2 - 41x + 290 = 0$ $\Rightarrow (x-10)(x-31) = 0$ $\Rightarrow x = 10, 31$

(22) $x^2 + 43x + 300 = 0$ $\Rightarrow (x+12)(x+25) = 0$ $\Rightarrow x = -12, -25$

(23) $x^2 - 45x + 300 = 0$ $\Rightarrow (x-15)(x-20) = 0$ $\Rightarrow x = 15, 20$

(24) $x^2 + 47x + 312 = 0$ $\Rightarrow (x+13)(x+24) = 0$ $\Rightarrow x = -13, -24$

(25) $x^2 - 49x + 320 = 0$ $\Rightarrow (x-16)(x-20) = 0$ $\Rightarrow x = 16, 20$

(26) $x^2 + 51x + 320 = 0$ $\Rightarrow (x+16)(x+20) = 0$ $\Rightarrow x = -16, -20$

(27) $x^2 - 53x + 330 = 0$ $\Rightarrow (x-11)(x-30) = 0$ $\Rightarrow x = 11, 30$

(28) $x^2 + 55x + 330 = 0$ $\Rightarrow (x+11)(x+30) = 0$ $\Rightarrow x = -11, -30$

(29) $x^2 - 57x + 340 = 0$ $\Rightarrow (x-14)(x-24) = 0$ $\Rightarrow x = 14, 24$

(30) $x^2 + 59x + 340 = 0$ $\Rightarrow (x+14)(x+24) = 0$ $\Rightarrow x = -14, -24$

(31) $x^2 - 61x + 350 = 0$ $\Rightarrow (x-14)(x-25) = 0$ $\Rightarrow x = 14, 25$

(32) $x^2 + 63x + 350 = 0$ $\Rightarrow (x+14)(x+25) = 0$ $\Rightarrow x = -14, -25$

(33) $x^2 - 65x + 360 = 0$ $\Rightarrow (x-15)(x-24) = 0$ $\Rightarrow x = 15, 24$

(34) $x^2 + 67x + 360 = 0$ $\Rightarrow (x+15)(x+24) = 0$ $\Rightarrow x = -15, -24$

(35) $x^2 - 69x + 370 = 0$ $\Rightarrow (x-17)(x-22) = 0$ $\Rightarrow x = 17, 22$

(36) $x^2 + 71x + 370 = 0$ $\Rightarrow (x+17)(x+22) = 0$ $\Rightarrow x = -17, -22$

(37) $x^2 - 73x + 380 = 0$ $\Rightarrow (x-19)(x-20) = 0$ $\Rightarrow x = 19, 20$

(38) $x^2 + 75x + 380 = 0$ $\Rightarrow (x+19)(x+20) = 0$ $\Rightarrow x = -19, -20$

(39) $x^2 - 77x + 390 = 0$ $\Rightarrow (x-18)(x-21) = 0$ $\Rightarrow x = 18, 21$

(40) $x^2 + 79x + 390 = 0$ $\Rightarrow (x+18)(x+21) = 0$ $\Rightarrow x = -18, -21$

(41) $x^2 - 81x + 400 = 0$ $\Rightarrow (x-20)(x-20) = 0$ $\Rightarrow x = 20$

(42) $x^2 + 83x + 400 = 0$ $\Rightarrow (x+20)(x+20) = 0$ $\Rightarrow x = -20$

(43) $x^2 - 85x + 410 = 0$ $\Rightarrow (x-19)(x-21) = 0$ $\Rightarrow x = 19, 21$

(44) $x^2 + 87x + 410 = 0$ $\Rightarrow (x+19)(x+21) = 0$ $\Rightarrow x = -19, -21$

(45) $x^2 - 89x + 420 = 0$ $\Rightarrow (x-21)(x-20) = 0$ $\Rightarrow x = 21, 20$

(46) $x^2 + 91x + 420 = 0$ $\Rightarrow (x+21)(x+20) = 0$ $\Rightarrow x = -21, -20$

(47) $x^2 - 93x + 430 = 0$ $\Rightarrow (x-22)(x-19) = 0$ $\Rightarrow x = 22, 19$

(48) $x^2 + 95x + 430 = 0$ $\Rightarrow (x+22)(x+19) = 0$ $\Rightarrow x = -22, -19$

(49) $x^2 - 97x + 440 = 0$ $\Rightarrow (x-22)(x-20) = 0$ $\Rightarrow x = 22, 20$

(50) $x^2 + 99x + 440 = 0$ $\Rightarrow (x+22)(x+20) = 0$ $\Rightarrow x = -22, -20$

(51) $x^2 - 101x + 450 = 0$ $\Rightarrow (x-23)(x-19) = 0$ $\Rightarrow x = 23, 19$

(52) $x^2 + 103x + 450 = 0$ $\Rightarrow (x+23)(x+19) = 0$ $\Rightarrow x = -23, -19$

(53) $x^2 - 105x + 460 = 0$ $\Rightarrow (x-24)(x-19) = 0$ $\Rightarrow x = 24, 19$

(54) $x^2 + 107x + 460 = 0$ $\Rightarrow (x+24)(x+19) = 0$ $\Rightarrow x = -24, -19$

(55) $x^2 - 109x + 470 = 0$ $\Rightarrow (x-25)(x-19) = 0$ $\Rightarrow x = 25, 19$

(56) $x^2 + 111x + 470 = 0$ $\Rightarrow (x+25)(x+19) = 0$ $\Rightarrow x = -25, -19$

(57) $x^2 - 113x + 480 = 0$ $\Rightarrow (x-24)(x-20) = 0$ $\Rightarrow x = 24, 20$

(58) $x^2 + 115x + 480 = 0$ $\Rightarrow (x+24)(x+20) = 0$ $\Rightarrow x = -24, -20$

(59) $x^2 - 117x + 490 = 0$ $\Rightarrow (x-25)(x-19) = 0$ $\Rightarrow x = 25, 19$

(60) $x^2 + 119x + 490 = 0$ $\Rightarrow (x+25)(x+19) = 0$ $\Rightarrow x = -25, -19$

(61) $x^2 - 121x + 500 = 0$ $\Rightarrow (x-25)(x-20) = 0$ $\Rightarrow x = 25, 20$

(62) $x^2 + 123x + 500 = 0$ $\Rightarrow (x+25)(x+20) = 0$ $\Rightarrow x = -25, -20$

(63) $x^2 - 125x + 510 = 0$ $\Rightarrow (x-26)(x-19) = 0$ $\Rightarrow x = 26, 19$

(64) $x^2 + 127x + 510 = 0$ $\Rightarrow (x+26)(x+19) = 0$ $\Rightarrow x = -26, -19$

(65) $x^2 - 129x + 520 = 0$ $\Rightarrow (x-26)(x-20) = 0$ $\Rightarrow x = 26, 20$

(66) $x^2 + 131x + 520 = 0$ $\Rightarrow (x+26)(x+20) = 0$ $\Rightarrow x = -26, -20$

(67) $x^2 - 133x + 530 = 0$ $\Rightarrow (x-27)(x-19) = 0$ $\Rightarrow x = 27, 19$

(68) $x^2 + 135x + 530 = 0$ $\Rightarrow (x+27)(x+19) = 0$ $\Rightarrow x = -27, -19$

(69) $x^2 - 137x + 540 = 0$ $\Rightarrow (x-27)(x-20) = 0$ $\Rightarrow x = 27, 20$

(70) $x^2 + 139x + 540 = 0$ $\Rightarrow (x+27)(x+20) = 0$ $\Rightarrow x = -27, -20$

(71) $x^2 - 141x + 550 = 0$ $\Rightarrow (x-28)(x-19) = 0$ $\Rightarrow x = 28, 19$

(72) $x^2 + 143x + 550 = 0$ $\Rightarrow (x+28)(x+19) = 0$ $\Rightarrow x = -28, -19$

(73) $x^2 - 145x + 560 = 0$ $\Rightarrow (x-28)(x-20) = 0$ $\Rightarrow x = 28, 20$

(74) $x^2 + 147x + 560 = 0$ $\Rightarrow (x+28)(x+20) = 0$ $\Rightarrow x = -28, -20$

(75) $x^2 - 149x + 570 = 0$ $\Rightarrow (x-29)(x-19) = 0$ $\Rightarrow x = 29, 19$

(76) $x^2 + 151x + 570 = 0$ $\Rightarrow (x+29)(x+19) = 0$ $\Rightarrow x = -29, -19$

(77) $x^2 - 153x + 580 = 0$ $\Rightarrow (x-29)(x-20) = 0$ $\Rightarrow x = 29, 20$

(78) $x^2 + 155x + 580 = 0$ $\Rightarrow (x+29)(x+20) = 0$ $\Rightarrow x = -29, -20$

(79) $x^2 - 157x + 590 = 0$ $\Rightarrow (x-30)(x-19) = 0$ $\Rightarrow x = 30, 19$

(80) $x^2 + 159x + 590 = 0$ $\Rightarrow (x+30)(x+19) = 0$ $\Rightarrow x = -30, -19$

(81) $x^2 - 161x + 600 = 0$ $\Rightarrow (x-30)(x-20) = 0$ $\Rightarrow x = 30, 20$

(82) $x^2 + 163x + 600 = 0$ $\Rightarrow (x+30)(x+20) = 0$ $\Rightarrow x = -30, -20$

(83) $x^2 - 165x + 610 = 0$ $\Rightarrow (x-31)(x-19) = 0$ $\Rightarrow x = 31, 19$

(84) $x^2 + 167x + 610 = 0$ $\Rightarrow (x+31)(x+19) = 0$ $\Rightarrow x = -31, -19$

(85) $x^2 - 169x + 620 = 0$ $\Rightarrow (x-31)(x-20) = 0$ $\Rightarrow x = 31, 20$

(86) $x^2 + 171x + 620 = 0$ $\Rightarrow (x+31)(x+20) = 0$ $\Rightarrow x = -31, -20$

(87) $x^2 - 173x + 630 = 0$ $\Rightarrow (x-32)(x-19) = 0$ $\Rightarrow x = 32, 19$

(88) $x^2 + 175x + 630 = 0$ $\Rightarrow (x+32)(x+19) = 0$ $\Rightarrow x = -32, -19$

(89) $x^2 - 177x + 640 = 0$ $\Rightarrow (x-32)(x-20) = 0$ $\Rightarrow x = 32, 20$

(90) $x^2 + 179x + 640 = 0$ $\Rightarrow (x+32)(x+20) = 0$ $\Rightarrow x = -32, -20$

(91) $x^2 - 181x + 650 = 0$ $\Rightarrow (x-33)(x-19) = 0$ $\Rightarrow x = 33, 19$

(92) $x^2 + 183x + 650 = 0$ $\Rightarrow (x+33)(x+19) = 0$ $\Rightarrow x = -33, -19$

(93) $x^2 - 185x + 660 = 0$ $\Rightarrow (x-33)(x-20) = 0$ $\Rightarrow x = 33, 20$

(94) $x^2 + 187x + 660 = 0$ $\Rightarrow (x+33)(x+20) = 0$ $\Rightarrow x = -33, -20$

(95) $x^2 - 189x + 670 = 0$ $\Rightarrow (x-34)(x-19) = 0$ $\Rightarrow x = 34, 19$

(96) $x^2 + 191x + 670 = 0$ $\Rightarrow (x+34)(x+19) = 0$ $\Rightarrow x = -34, -19$

(97) $x^2 - 193x + 680 = 0$ $\Rightarrow (x-34)(x-20) = 0$ $\Rightarrow x = 34, 20$

(98) $x^2 + 195x + 680 = 0$ $\Rightarrow (x+34)(x+20) = 0$ $\Rightarrow x = -34, -20$

(99) $x^2 - 197x + 690 = 0$ $\Rightarrow (x-35)(x-19) = 0$ $\Rightarrow x = 35, 19$

(100) $x^2 + 199x + 690 = 0$ $\Rightarrow (x+35)(x+19) = 0$ $\Rightarrow x = -35, -19$

(101) $x^2 - 201x + 700 = 0$ $\Rightarrow (x-35)(x-20) = 0$ $\Rightarrow x = 35, 20$

(102) $x^2 + 203x + 700 = 0$ $\Rightarrow (x+35)(x+20) = 0$ $\Rightarrow x = -35, -20$

(103) $x^2 - 205x + 710 = 0$ $\Rightarrow (x-36)(x-19) = 0$ $\Rightarrow x = 36, 19$

(104) $x^2 + 207x + 710 = 0$ $\Rightarrow (x+36)(x+19) = 0$ $\Rightarrow x = -36, -19$

(105) $x^2 - 209x + 720 = 0$ $\Rightarrow (x-36)(x-20) = 0$ $\Rightarrow x = 36, 20$

(106) $x^2 + 211x + 720 = 0$ $\Rightarrow (x+36)(x+20) = 0$ $\Rightarrow x = -36, -20$

(107) $x^2 - 213x + 730 = 0$ $\Rightarrow (x-37)(x-19) = 0$ $\Rightarrow x = 37, 19$

(108) $x^2 + 215x + 730 = 0$ $\Rightarrow (x+37)(x+19) = 0$ $\Rightarrow x = -37, -19$

(109) $x^2 - 217x + 740 = 0$ $\Rightarrow (x-37)(x-20) = 0$ $\Rightarrow x = 37, 20$

(110) $x^2 + 219x + 740 = 0$ $\Rightarrow (x+37)(x+20) = 0$ $\Rightarrow x = -37, -20$

(111) $x^2 - 221x + 750 = 0$ $\Rightarrow (x-38)(x-19) = 0$ $\Rightarrow x = 38, 19$

(112) $x^2 + 223x + 750 = 0$ $\Rightarrow (x+38)(x+19) = 0$ $\Rightarrow x = -38, -19$

(113) $x^2 - 225x + 760 = 0$ $\Rightarrow (x-38)(x-20) = 0$ $\Rightarrow x = 38, 20$

(114) $x^2 + 227x + 760 = 0$ $\Rightarrow (x+38)(x+20) = 0$ $\Rightarrow x = -38, -20$

(115) $x^2 - 229x + 770 = 0$ $\Rightarrow (x-39)(x-19) = 0$ $\Rightarrow x = 39, 19$

(116) $x^2 + 231x + 770 = 0$ $\Rightarrow (x+39)(x+19) = 0$ $\Rightarrow x = -39, -19$

(117) $x^2 - 233x + 780 = 0$ $\Rightarrow (x-39)(x-20) = 0$ $\Rightarrow x = 39, 20$

(118) $x^2 + 235x + 780 = 0$ $\Rightarrow (x+39)(x+20) = 0$ $\Rightarrow x = -39, -20$

(119) $x^2 - 237x + 790 = 0$ $\Rightarrow (x-40)(x-19) = 0$ $\Rightarrow x = 40, 19$

(120) $x^2 + 239x + 790 = 0$ $\Rightarrow (x+40)(x+19) = 0$ $\Rightarrow x = -40, -19$

(121) $x^2 - 241x + 800 = 0$ $\Rightarrow (x-40)(x-20) = 0$ $\Rightarrow x = 40, 20$

(122) $x^2 + 243x + 800 = 0$ $\Rightarrow (x+40)(x+20) = 0$ $\Rightarrow x = -40, -20$

(123) $x^2 - 245x + 810 = 0$ $\Rightarrow (x-41)(x-19) = 0$ $\Rightarrow x = 41, 19$

(124) $x^2 + 247x + 810 = 0$ $\Rightarrow (x+41)(x+19) = 0$ $\Rightarrow x = -41, -19$

(125) $x^2 - 249x + 820 = 0$ $\Rightarrow (x-41)(x-20) = 0$ $\Rightarrow x = 41, 20$

(126) $x^2 + 251x + 820 = 0$ $\Rightarrow (x+41)(x+20) = 0$ $\Rightarrow x = -41, -20$

(127) $x^2 - 253x + 830 = 0$ $\Rightarrow (x-42)(x-19) = 0$ $\Rightarrow x = 42, 19$

(128) $x^2 + 255x + 830 = 0$ $\Rightarrow (x+42)(x+19) = 0$ $\Rightarrow x = -42, -19$

(129) $x^2 - 257x + 840 = 0$ $\Rightarrow (x-42)(x-20) = 0$ $\Rightarrow x = 42, 20$

(130) $x^2 + 259x + 840 = 0$ $\Rightarrow (x+42)(x+20) = 0$ $\Rightarrow x = -42, -20$

(131) $x^2 - 261x + 850 = 0$ $\Rightarrow (x-43)(x-19) = 0$ $\Rightarrow x = 43, 19$

(132) $x^2 + 263x + 850 = 0$ $\Rightarrow (x+43)(x+19) = 0$ $\Rightarrow x = -43, -19$

(133) $x^2 - 265x + 860 = 0$ $\Rightarrow (x-43)(x-20) = 0$ $\Rightarrow x = 43, 20$

(134) $x^2 + 267x + 860 = 0$ $\Rightarrow (x+43)(x+20) = 0$ $\Rightarrow x = -43, -20$

(135) $x^2 - 269x + 870 = 0$ $\Rightarrow (x-44)(x-19) = 0$ $\Rightarrow x = 44, 19$

(136) $x^2 + 271x + 870 = 0$ $\Rightarrow (x+44)(x+19) = 0$ $\Rightarrow x = -44, -19$

(137) $x^2 - 273x + 880 = 0$ $\Rightarrow (x-44)(x-20) = 0$ $\Rightarrow x = 44, 20$

(138) $x^2 + 275x + 880 = 0$ $\Rightarrow (x+44)(x+20) = 0$ $\Rightarrow x = -44, -20$

(139) $x^2 - 277x + 890 = 0$ $\Rightarrow (x-45)(x-19) = 0$ $\Rightarrow x = 45, 19$

(140) $x^2 + 279x + 890 = 0$ $\Rightarrow (x+45)(x+19) = 0$ $\Rightarrow x = -45, -19$

(141) $x^2 - 281x + 900 = 0$ $\Rightarrow (x-45)(x-20) = 0$ $\Rightarrow x = 45, 20$

(142) $x^2 + 283x + 900 = 0$ $\Rightarrow (x+45)(x+20) = 0$ $\Rightarrow x = -45, -20$

(143) $x^2 - 283x + 910 = 0$ $\Rightarrow (x-46)(x-19) = 0$ $\Rightarrow x = 46, 19$

(144) $x^2 + 285x + 910 = 0$ $\Rightarrow (x+46)(x+19) = 0$ $\Rightarrow x = -46, -19$

(145) $x^2 - 287x + 920 = 0$ $\Rightarrow (x-46)(x-20) = 0$ $\Rightarrow x = 46, 20$

(146) $x^2 + 289x + 920 = 0$ $\Rightarrow (x+46)(x+20) = 0$ $\Rightarrow x = -46, -20$

(147) $x^2 - 291x + 930 = 0$ $\Rightarrow (x-47)(x-19) = 0$ $\Rightarrow x = 47, 19$

(148) $x^2 + 293x + 930 = 0$ $\Rightarrow (x+47)(x+19) = 0$ $\Rightarrow x = -47, -19$

(149) $x^2 - 293x + 940 = 0$ $\Rightarrow (x-47)(x-20) = 0$ $\Rightarrow x = 47, 20$

(150) $x^2 + 295x + 940 = 0$ $\Rightarrow (x+47)(x+20) = 0$ $\Rightarrow x = -47, -20$

(151) $x^2 - 297x + 950 = 0$ $\Rightarrow (x-48)(x-19) = 0$ $\Rightarrow x = 48, 19$

(152) $x^2 + 299x + 950 = 0$ $\Rightarrow (x+48)(x+19) = 0$ $\Rightarrow x = -48, -19$

(153) $x^2 - 301x + 960 = 0$ $\Rightarrow (x-48)(x-20) = 0$ $\Rightarrow x = 48, 20$

(154) $x^2 + 303x + 960 = 0$ $\Rightarrow (x+48)(x+20) = 0$ $\Rightarrow x = -48, -20$

(155) $x^2 - 305x + 970 = 0$ $\Rightarrow (x-49)(x-19) = 0$ $\Rightarrow x = 49, 19$

(156) $x^2 + 307x + 970 = 0$ $\Rightarrow (x+49)(x+19) = 0$ $\Rightarrow x = -49, -19$

(157) $x^2 - 307x + 980 = 0$ $\Rightarrow (x-49)(x-20) = 0$ $\Rightarrow x = 49, 20$

(158) $x^2 + 309x + 980 = 0$ $\Rightarrow (x+49)(x+20) = 0$ $\Rightarrow x = -49, -20$

(159) $x^2 - 311x + 990 = 0$ $\Rightarrow (x-50)(x-19) = 0$ $\Rightarrow x = 50, 19$

(160) $x^2 + 313x + 990 = 0$ $\Rightarrow (x+50)(x+19) = 0$ $\Rightarrow x = -50, -19$

(161) $x^2 - 313x + 1000 = 0$ $\Rightarrow (x-50)(x-20) = 0$ $\Rightarrow x = 50, 20$

(162) $x^2 + 315x + 1000 = 0$ $\Rightarrow (x+50)(x+20) = 0$ $\Rightarrow x = -50, -20$

(163) $x^2 - 317x + 1010 = 0$ $\Rightarrow (x-51)(x-19) = 0$ $\Rightarrow x = 51, 19$

(164) $x^2 + 319x + 1010 = 0$ $\Rightarrow (x+51)(x+19) = 0$ $\Rightarrow x = -51, -19$

(165) $x^2 - 319x + 1020 = 0$ $\Rightarrow (x-51)(x-20) = 0$ $\Rightarrow x = 51, 20$

(166) $x^2 + 321x + 1020 = 0$ $\Rightarrow (x+51)(x+20) = 0$ $\Rightarrow x = -51, -20$

(167) $x^2 - 323x + 1030 = 0$ $\Rightarrow (x-52)(x-19) = 0$ $\Rightarrow x = 52, 19$

(168) $x^2 + 325x + 1030 = 0$ $\Rightarrow (x+52)(x+19) = 0$ $\Rightarrow x = -52, -19$

(169) $x^2 - 325x + 1040 = 0$ $\Rightarrow (x-52)(x-20) = 0$ $\Rightarrow x = 52, 20$

(170) $x^2 + 327x + 1040 = 0$ $\Rightarrow (x+52)(x+20) = 0$ $\Rightarrow x = -52, -20$

(171) $x^2 - 329x + 1050 = 0$ $\Rightarrow (x-53)(x-19) = 0$ $\Rightarrow x = 53, 19$

(172) $x^2 + 331x + 1050 = 0$ $\Rightarrow (x+53)(x+19) = 0$ $\Rightarrow x = -53, -19$

(173) $x^2 - 331x + 1060 = 0$ $\Rightarrow (x-53)(x-20) = 0$ $\Rightarrow x = 53, 20$

(174) $x^2 + 333x + 1060 = 0$ $\Rightarrow (x+53)(x+20) = 0$ $\Rightarrow x = -53, -20$

(175) $x^2 - 335x + 1070 = 0$ $\Rightarrow (x-54)(x-19) = 0$ $\Rightarrow x = 54, 19$

(176) $x^2 + 337x + 1070 = 0$ $\Rightarrow (x+54)(x+19) = 0$ $\Rightarrow x = -54, -19$

(177) $x^2 - 337x + 1080 = 0$ $\Rightarrow (x-54)(x-20) = 0$ $\Rightarrow x = 54, 20$

(178) $x^2 + 339x + 1080 = 0$ $\$