
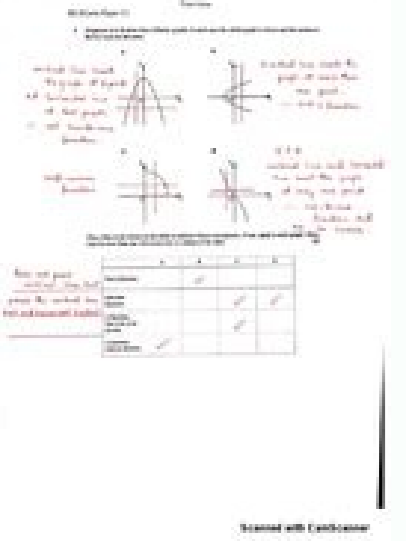
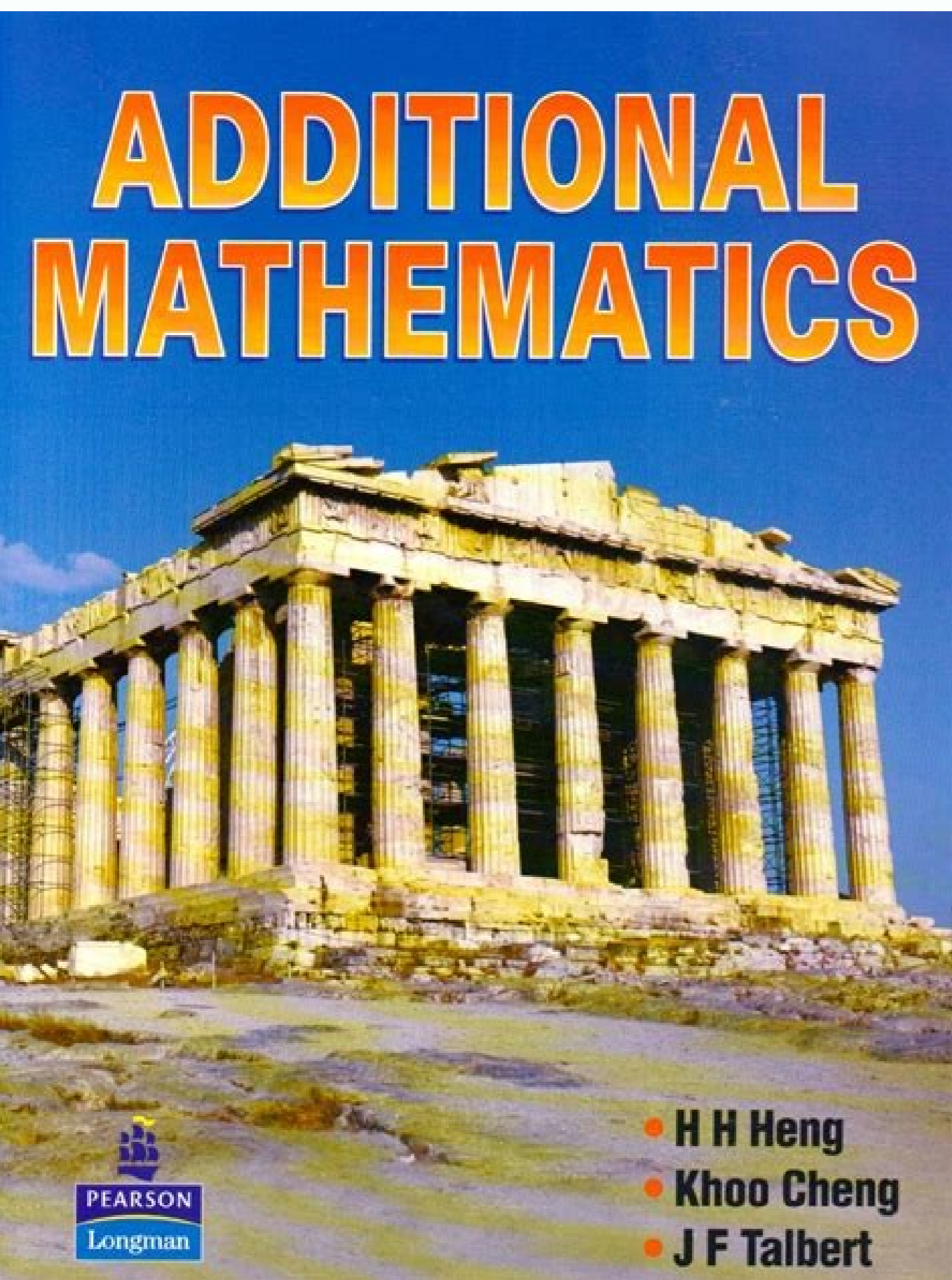
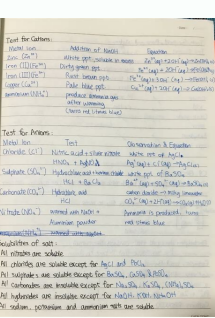


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Topic 2: Quadratic Functions

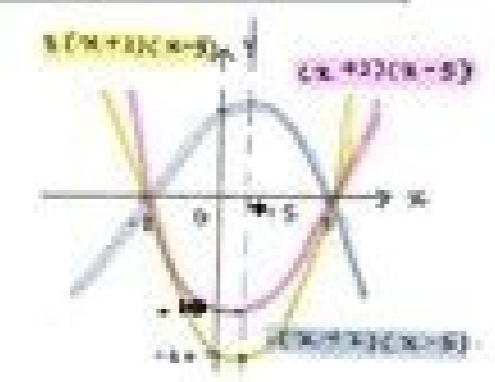
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Quadratic Function	Quadratic Equation
$ax^2 + bx + c$	$ax^2 + bx + c = 0$
Can be ... factorised	Can be ... solved

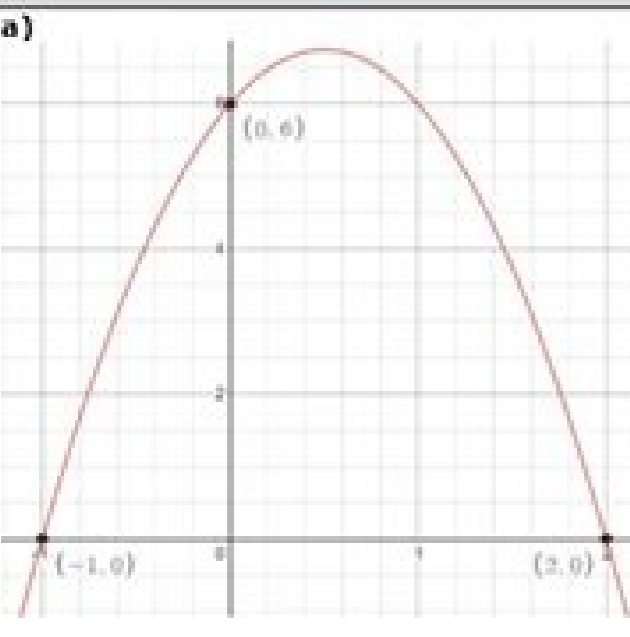
Factors	Roots	Roots/Solution/x-intercepts
$(x - \alpha)(x - \beta)$	α, β	<div style="display: flex; justify-content: space-around;"> Equation Function </div>
$(x - 2)(x + 3)$	$2, -3$	
$(2x + 3)(4x - 1)$	$-\frac{3}{2}, \frac{1}{4}$	
$x(6 - x)$	$0, 6$	

Forming Quadratic Functions	
Roots	Quadratic Functions
$k, 2k$	$(x - k)(x - 2k)$
$0, 1$	$x(x - 1)$

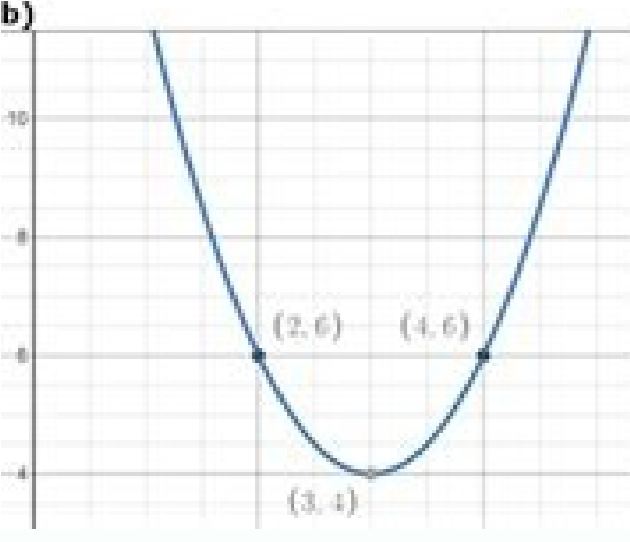


Forming Quadratic Functions

a)



b)



Approach 1 $y = 3x + c$ Line goes through (3, 7) so $y = 7$ when $x = 3$ $7 = 3(3) + c$ $c = 2$ $y = 3x + 2$ Approach 2 (preferred) Gradient is $\frac{7 - 3}{3 - 0} = \frac{4}{3}$ $y - 3 = \frac{4}{3}(x - 0)$ $y = \frac{4}{3}x + 3$ First Edition © C Morris. A polynomial of degree 3 is cubic. We can work through this in stages. In order to get the $2x^3$ term a is clearly 2. Solution Let $f(x) = 2x^3 + 5x^2 + 6x + f(1) = 2 + 5 + 6 + f(1) = 13 + f(1)$. $f(1) = 12$ so $f(x) = 2x^3 + 5x^2 + 6x + 12$. $f(1) = 12$ is not a factor of $f(x)$. $f(2) = 16 + 20 + 12 + 12 = 40$. $f(2) = 40$ is not a factor of $f(x)$. $f(3) = 54 + 45 + 18 + 12 = 129$. $f(3) = 129$ is not a factor of $f(x)$. $f(4) = 128 + 80 + 24 + 12 = 244$. $f(4) = 244$ is not a factor of $f(x)$. $f(5) = 250 + 125 + 30 + 12 = 417$. $f(5) = 417$ is not a factor of $f(x)$. $f(6) = 432 + 180 + 36 + 12 = 660$. $f(6) = 660$ is not a factor of $f(x)$. $f(7) = 686 + 245 + 42 + 12 = 985$. $f(7) = 985$ is not a factor of $f(x)$. $f(8) = 1024 + 320 + 48 + 12 = 1404$. $f(8) = 1404$ is not a factor of $f(x)$. $f(9) = 1458 + 405 + 54 + 12 = 1929$. $f(9) = 1929$ is not a factor of $f(x)$. $f(10) = 2000 + 500 + 60 + 12 = 2572$. $f(10) = 2572$ is not a factor of $f(x)$. $f(11) = 2662 + 605 + 66 + 12 = 3345$. $f(11) = 3345$ is not a factor of $f(x)$. $f(12) = 3456 + 720 + 72 + 12 = 4260$. $f(12) = 4260$ is not a factor of $f(x)$. $f(13) = 4382 + 845 + 78 + 12 = 5317$. $f(13) = 5317$ is not a factor of $f(x)$. $f(14) = 4448 + 980 + 84 + 12 = 5524$. $f(14) = 5524$ is not a factor of $f(x)$. $f(15) = 4650 + 1125 + 90 + 12 = 5877$. $f(15) = 5877$ is not a factor of $f(x)$. $f(16) = 4900 + 1280 + 96 + 12 = 6298$. $f(16) = 6298$ is not a factor of $f(x)$. $f(17) = 5198 + 1445 + 102 + 12 = 6757$. $f(17) = 6757$ is not a factor of $f(x)$. $f(18) = 5544 + 1620 + 108 + 12 = 7284$. $f(18) = 7284$ is not a factor of $f(x)$. $f(19) = 5938 + 1805 + 114 + 12 = 7869$. $f(19) = 7869$ is not a factor of $f(x)$. $f(20) = 6380 + 2000 + 120 + 12 = 8512$. $f(20) = 8512$ is not a factor of $f(x)$. $f(21) = 6870 + 2205 + 126 + 12 = 9213$. $f(21) = 9213$ is not a factor of $f(x)$. $f(22) = 7408 + 2420 + 132 + 12 = 9972$. $f(22) = 9972$ is not a factor of $f(x)$. $f(23) = 7994 + 2645 + 138 + 12 = 10889$. $f(23) = 10889$ is not a factor of $f(x)$. $f(24) = 8628 + 2880 + 144 + 12 = 11964$. $f(24) = 11964$ is not a factor of $f(x)$. $f(25) = 9310 + 3125 + 150 + 12 = 13207$. $f(25) = 13207$ is not a factor of $f(x)$. $f(26) = 10042 + 3380 + 156 + 12 = 14690$. $f(26) = 14690$ is not a factor of $f(x)$. $f(27) = 10824 + 3645 + 162 + 12 = 16443$. $f(27) = 16443$ is not a factor of $f(x)$. $f(28) = 11656 + 3920 + 168 + 12 = 18456$. $f(28) = 18456$ is not a factor of $f(x)$. $f(29) = 12538 + 4205 + 174 + 12 = 20829$. $f(29) = 20829$ is not a factor of $f(x)$. $f(30) = 13470 + 4500 + 180 + 12 = 24162$. $f(30) = 24162$ is not a factor of $f(x)$. $f(31) = 14452 + 4805 + 186 + 12 = 28455$. $f(31) = 28455$ is not a factor of $f(x)$. $f(32) = 15484 + 5120 + 192 + 12 = 33818$. $f(32) = 33818$ is not a factor of $f(x)$. $f(33) = 16566 + 5445 + 198 + 12 = 40221$. $f(33) = 40221$ is not a factor of $f(x)$. $f(34) = 17700 + 5780 + 204 + 12 = 47796$. $f(34) = 47796$ is not a factor of $f(x)$. $f(35) = 18884 + 6125 + 210 + 12 = 56631$. $f(35) = 56631$ is not a factor of $f(x)$. $f(36) = 20118 + 6480 + 216 + 12 = 66726$. $f(36) = 66726$ is not a factor of $f(x)$. $f(37) = 21402 + 6845 + 222 + 12 = 78187$. $f(37) = 78187$ is not a factor of $f(x)$. $f(38) = 22736 + 7220 + 228 + 12 = 91036$. $f(38) = 91036$ is not a factor of $f(x)$. $f(39) = 24120 + 7605 + 234 + 12 = 105371$. $f(39) = 105371$ is not a factor of $f(x)$. $f(40) = 25554 + 8000 + 240 + 12 = 121266$. $f(40) = 121266$ is not a factor of $f(x)$. $f(41) = 27038 + 8405 + 246 + 12 = 138701$. $f(41) = 138701$ is not a factor of $f(x)$. $f(42) = 28572 + 8820 + 252 + 12 = 157896$. $f(42) = 157896$ is not a factor of $f(x)$. $f(43) = 30156 + 9245 + 258 + 12 = 178863$. $f(43) = 178863$ is not a factor of $f(x)$. $f(44) = 31790 + 9680 + 264 + 12 = 201696$. $f(44) = 201696$ is not a factor of $f(x)$. $f(45) = 33474 + 10125 + 270 + 12 = 226521$. $f(45) = 226521$ is not a factor of $f(x)$. $f(46) = 35208 + 10580 + 276 + 12 = 253476$. $f(46) = 253476$ is not a factor of $f(x)$. $f(47) = 36992 + 11045 + 282 + 12 = 282571$. $f(47) = 282571$ is not a factor of $f(x)$. $f(48) = 38826 + 11520 + 288 + 12 = 313926$. $f(48) = 313926$ is not a factor of $f(x)$. $f(49) = 40710 + 12005 + 294 + 12 = 347553$. $f(49) = 347553$ is not a factor of $f(x)$. $f(50) = 42644 + 12500 + 300 + 12 = 393556$. $f(50) = 393556$ is not a factor of $f(x)$. $f(51) = 44628 + 13005 + 306 + 12 = 442151$. $f(51) = 442151$ is not a factor of $f(x)$. $f(52) = 46662 + 13520 + 312 + 12 = 493496$. $f(52) = 493496$ is not a factor of $f(x)$. $f(53) = 48746 + 14045 + 318 + 12 = 547691$. $f(53) = 547691$ is not a factor of $f(x)$. $f(54) = 50880 + 14580 + 324 + 12 = 604826$. $f(54) = 604826$ is not a factor of $f(x)$. $f(55) = 53064 + 15125 + 330 + 12 = 664921$. $f(55) = 664921$ is not a factor of $f(x)$. $f(56) = 55298 + 15680 + 336 + 12 = 728096$. $f(56) = 728096$ is not a factor of $f(x)$. $f(57) = 57582 + 16245 + 342 + 12 = 794431$. $f(57) = 794431$ is not a factor of $f(x)$. $f(58) = 59916 + 16820 + 348 + 12 = 863966$. $f(58) = 863966$ is not a factor of $f(x)$. $f(59) = 62290 + 17405 + 354 + 12 = 936791$. $f(59) = 936791$ is not a factor of $f(x)$. $f(60) = 64714 + 18000 + 360 + 12 = 1013996$. $f(60) = 1013996$ is not a factor of $f(x)$. $f(61) = 67188 + 18605 + 366 + 12 = 1095691$. $f(61) = 1095691$ is not a factor of $f(x)$. $f(62) = 69712 + 19220 + 372 + 12 = 1181996$. $f(62) = 1181996$ is not a factor of $f(x)$. $f(63) = 72286 + 19845 + 378 + 12 = 1272921$. $f(63) = 1272921$ is not a factor of $f(x)$. $f(64) = 74910 + 20480 + 384 + 12 = 1368496$. $f(64) = 1368496$ is not a factor of $f(x)$. $f(65) = 77584 + 21125 + 390 + 12 = 1468731$. $f(65) = 1468731$ is not a factor of $f(x)$. $f(66) = 80308 + 21780 + 396 + 12 = 1573766$. $f(66) = 1573766$ is not a factor of $f(x)$. $f(67) = 83082 + 22445 + 402 + 12 = 1683621$. $f(67) = 1683621$ is not a factor of $f(x)$. $f(68) = 85906 + 23120 + 408 + 12 = 1798346$. $f(68) = 1798346$ is not a factor of $f(x)$. $f(69) = 88780 + 23805 + 414 + 12 = 1917981$. $f(69) = 1917981$ is not a factor of $f(x)$. $f(70) = 91704 + 24500 + 420 + 12 = 2042646$. $f(70) = 2042646$ is not a factor of $f(x)$. $f(71) = 94678 + 25205 + 426 + 12 = 2172451$. $f(71) = 2172451$ is not a factor of $f(x)$. $f(72) = 97702 + 25920 + 432 + 12 = 2307506$. $f(72) = 2307506$ is not a factor of $f(x)$. $f(73) = 100776 + 26645 + 438 + 12 = 2447931$. $f(73) = 2447931$ is not a factor of $f(x)$. $f(74) = 103900 + 27380 + 444 + 12 = 2593766$. $f(74) = 2593766$ is not a factor of $f(x)$. $f(75) = 107074 + 28125 + 450 + 12 = 2745131$. $f(75) = 2745131$ is not a factor of $f(x)$. $f(76) = 110298 + 28880 + 456 + 12 = 2902166$. $f(76) = 2902166$ is not a factor of $f(x)$. $f(77) = 113572 + 29645 + 462 + 12 = 3064901$. $f(77) = 3064901$ is not a factor of $f(x)$. $f(78) = 116896 + 30420 + 468 + 12 = 3233456$. $f(78) = 3233456$ is not a factor of $f(x)$. $f(79) = 120270 + 31205 + 474 + 12 = 3407871$. $f(79) = 3407871$ is not a factor of $f(x)$. $f(80) = 123694 + 32000 + 480 + 12 = 3588266$. $f(80) = 3588266$ is not a factor of $f(x)$. $f(81) = 127168 + 32805 + 486 + 12 = 3774681$. $f(81) = 3774681$ is not a factor of $f(x)$. $f(82) = 130692 + 33620 + 492 + 12 = 3967246$. $f(82) = 3967246$ is not a factor of $f(x)$. $f(83) = 134266 + 34445 + 498 + 12 = 4166081$. $f(83) = 4166081$ is not a factor of $f(x)$. $f(84) = 137890 + 35280 + 504 + 12 = 4371306$. $f(84) = 4371306$ is not a factor of $f(x)$. $f(85) = 141564 + 36125 + 510 + 12 = 4583951$. $f(85) = 4583951$ is not a factor of $f(x)$. $f(86) = 145288 + 36980 + 516 + 12 = 4804146$. $f(86) = 4804146$ is not a factor of $f(x)$. $f(87) = 149062 + 37845 + 522 + 12 = 5031901$. $f(87) = 5031901$ is not a factor of $f(x)$. $f(88) = 152886 + 38720 + 528 + 12 = 5267346$. $f(88) = 5267346$ is not a factor of $f(x)$. $f(89) = 156760 + 39605 + 534 + 12 = 5510501$. $f(89) = 5510501$ is not a factor of $f(x)$. $f(90) = 160684 + 40500 + 540 + 12 = 5761496$. $f(90) = 5761496$ is not a factor of $f(x)$. $f(91) = 164658 + 41405 + 546 + 12 = 6020351$. $f(91) = 6020351$ is not a factor of $f(x)$. $f(92) = 168682 + 42320 + 552 + 12 = 6287106$. $f(92) = 6287106$ is not a factor of $f(x)$. $f(93) = 172756 + 43245 + 558 + 12 = 6561881$. $f(93) = 6561881$ is not a factor of $f(x)$. $f(94) = 176880 + 44180 + 564 + 12 = 6844706$. $f(94) = 6844706$ is not a factor of $f(x)$. $f(95) = 181054 + 45125 + 570 + 12 = 7135621$. $f(95) = 7135621$ is not a factor of $f(x)$. $f(96) = 185278 + 46080 + 576 + 12 = 7434676$. $f(96) = 7434676$ is not a factor of $f(x)$. $f(97) = 189552 + 47045 + 582 + 12 = 7741921$. $f(97) = 7741921$ is not a factor of $f(x)$. $f(98) = 193876 + 48020 + 588 + 12 = 8057396$. $f(98) = 8057396$ is not a factor of $f(x)$. $f(99) = 198250 + 49005 + 594 + 12 = 8381131$. $f(99) = 8381131$ is not a factor of $f(x)$. $f(100) = 202674 + 50000 + 600 + 12 = 8713246$. $f(100) = 8713246$ is not a factor of $f(x)$.

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