

**Solve all Quadratic Equations**

$$x^2 - 16x + 60 = 0$$

$$(x-6)(x-10) = 0$$

$$x=6 \text{ or } 10$$

$$x^2 + 2x - 35 = 0$$

$$(x+7)(x-5) = 0$$

$$x=-7 \text{ or } 5$$

$$x^2 - x - 30 = 0$$

$$(x+5)(x-6) = 0$$

$$x=-5 \text{ or } 6$$

$$x^2 - 12x + 35 = 0$$

$$(x-5)(x-7) = 0$$

$$x=5 \text{ or } 7$$

$$x^2 + 8x + 15 = 0$$

$$(x+3)(x+5) = 0$$

$$x=-3 \text{ or } -5$$

$$x^2 + x - 56 = 0$$

$$(x+8)(x-7) = 0$$

$$x=-8 \text{ or } 7$$

$$x^2 - 13x + 30 = 0$$

$$(x-3)(x-10) = 0$$

$$x=3 \text{ or } 10$$

$$x^2 + 8x + 15 = 0$$

$$(x+3)(x+5) = 0$$

$$x=-3 \text{ or } -5$$

$$x^2 + 10x + 21 = 0$$

$$(x+7)(x+3) = 0$$

$$x=-7 \text{ or } -3$$

$$x^2 + 8x - 9 = 0$$

$$(x+9)(x-1) = 0$$

$$x=-9 \text{ or } 1$$

$$x^2 + 3x - 10 = 0$$

$$x^2 - 81 = 0$$

$$(x+5)(x-2) = 0$$

$$(x+9)(x-9) = 0$$

$$x = -5 \text{ or } 2$$

$$x = -9 \text{ or } 9$$

$$x^2 + 4x - 5 = 0$$

$$x^2 + 9x + 18 = 0$$

$$(x+5)(x-1) = 0$$

$$(x+3)(x+6) = 0$$

$$x = -5 \text{ or } 1$$

$$x = -3 \text{ or } -6$$

$$x^2 + 9x + 14 = 0$$

$$x^2 - 17x + 72 = 0$$

$$(x+2)(x+7) = 0$$

$$(x-8)(x-9) = 0$$

$$x = -2 \text{ or } -7$$

$$x = 8 \text{ or } 9$$

$$x^2 - 8x + 12 = 0$$

$$x^2 - 9x + 8 = 0$$

$$(x-2)(x-6) = 0$$

$$(x-1)(x-8) = 0$$

$$x = 2 \text{ or } 6$$

$$x = 1 \text{ or } 8$$

$$x^2 + 16x + 63 = 0$$

$$x^2 + 10x + 16 = 0$$

$$(x+7)(x+9) = 0$$

$$(x+2)(x+8) = 0$$

$$x = -7 \text{ or } -9$$

$$x = -2 \text{ or } -8$$

$$x^2 - 14x + 33 = 0$$

$$x^2 + 15x + 26 = 0$$

$$(x-3)(x-11) = 0$$

$$(x+2)(x+13) = 0$$

$$x = 3 \text{ or } 11$$

$$x = -2 \text{ or } -13$$

$$x^2 - 26x + 120 = 0$$

$$x^2 - 9x - 70 = 0$$

$$(x-20)(x-6) = 0$$

$$(x+5)(x-14) = 0$$

$$x = 20 \text{ or } 6$$

$$x = -5 \text{ or } 14$$

$$x^2 + 23x + 120 = 0$$

$$x^2 - 9x - 136 = 0$$

$$(x+15)(x+8) = 0$$

$$(x+8)(x-17) = 0$$

$$x = -15 \text{ or } -8$$

$$x = -8 \text{ or } 17$$

$$x^2 - 4x - 192 = 0$$

$$x^2 - 12x - 64 = 0$$

$$(x+12)(x-16) = 0$$

$$(x+4)(x-16) = 0$$

$$x = -12 \text{ or } 16$$

$$x = -4 \text{ or } 16$$

$$x^2 + 26x + 133 = 0$$

$$x^2 - 39x + 380 = 0$$

$$(x+7)(x+19) = 0$$

$$(x-19)(x-20) = 0$$

$$x = -7 \text{ or } -19$$

$$x = 19 \text{ or } 20$$

$$x^2 - 10x - 56 = 0$$

$$(x+4)(x-14) = 0$$

$$x = -4 \text{ or } 14$$

$$x^2 + 19x + 88 = 0$$

$$(x+8)(x+11) = 0$$

$$x = -8 \text{ or } -11$$

$$x^2 + 8x - 105 = 0$$

$$(x+15)(x-7) = 0$$

$$x = -15 \text{ or } 7$$

$$x^2 + 5x - 150 = 0$$

$$(x+15)(x-10) = 0$$

$$x = -15 \text{ or } 10$$

$$x^2 + 16x + 55 = 0$$

$$(x+5)(x+11) = 0$$

$$x = -5 \text{ or } -11$$

$$x^2 + 6x - 72 = 0$$

$$(x+12)(x-6) = 0$$

$$x = -12 \text{ or } 6$$

$$x^2 + 18x + 65 = 0$$

$$(x+5)(x+13) = 0$$

$$x = -5 \text{ or } -13$$

$$x^2 + 23x + 112 = 0$$

$$(x+7)(x+16) = 0$$

$$x = -7 \text{ or } -16$$

$$x^2 + 12x - 85 = 0$$

$$(x+17)(x-5) = 0$$

$$x = -17 \text{ or } 5$$

$$x^2 - 10x - 24 = 0$$

$$(x+2)(x-12) = 0$$

$$x = -2 \text{ or } 12$$

$$x^2 + 6x - 112 = 0$$

$$(x+14)(x-8) = 0$$

$$x = -14 \text{ or } 8$$

$$x^2 - 28x + 195 = 0$$

$$(x-15)(x-13) = 0$$

$$x = 15 \text{ or } 13$$

$$x^2 + 15x + 26 = 0$$

$$(x+2)(x+13) = 0$$

$$x = -2 \text{ or } -13$$

$$x^2 - 29x + 198 = 0$$

$$(x-18)(x-11) = 0$$

$$x = 18 \text{ or } 11$$

$$x^2 - 18x + 56 = 0$$

$$(x-4)(x-14) = 0$$

$$x = 4 \text{ or } 14$$

$$x^2 + 9x - 112 = 0$$

$$(x+16)(x-7) = 0$$

$$x = -16 \text{ or } 7$$

$$x^2 - 14x + 33 = 0$$

$$(x-3)(x-11) = 0$$

$$x = 3 \text{ or } 11$$

$$x^2 + 4x - 77 = 0$$

$$(x+11)(x-7) = 0$$

$$x = -11 \text{ or } 7$$

$$x^2 - 9x - 220 = 0$$

$$(x+11)(x-20) = 0$$

$$x = -11 \text{ or } 20$$

$$x^2 - 28x + 192 = 0$$

$$(x-16)(x-12) = 0$$

$$x = 16 \text{ or } 12$$

$$-3x^2 + 22x + 45 = 0$$

$$3x^2 - 22x - 45 = 0$$

$$(3x+5)(x-9) = 0$$

$$x = -\frac{5}{3} \text{ or } 9$$

$$-2x^2 + 19x + 10 = 0$$

$$2x^2 - 19x - 10 = 0$$

$$(2x+1)(x-10) = 0$$

$$x = -\frac{1}{2} \text{ or } 10$$

$$5x^2 + 26x + 5 = 0$$

$$(5x+1)(x+5) = 0$$

$$x = -\frac{1}{5} \text{ or } -5$$

$$-3x^2 + 35x - 50 = 0$$

$$3x^2 - 35x + 50 = 0$$

$$(3x-5)(x-10) = 0$$

$$x = \frac{5}{3} \text{ or } 10$$

$$3x^2 + 17x + 21 = 0$$

$$x = \frac{-17 \pm \sqrt{289 - 84 \times 3}}{6}$$

$$x = \frac{-17 \pm \sqrt{37}}{6}$$

$$-3x^2 + 32x - 64 = 0$$

$$3x^2 - 32x + 64 = 0$$

$$(3x-8)(x-8) = 0$$

$$x = \frac{8}{3} \text{ or } 8$$

$$-3x^2 - 13x - 12 = 0$$

$$3x^2 + 13x + 12 = 0$$

$$(3x+4)(x+3) = 0$$

$$x = -\frac{4}{3} \text{ or } -3$$

$$-9x^2 - 14x - 5 = 0$$

$$9x^2 + 14x + 5 = 0$$

$$(9x+1)(x+5) = 0$$

$$x = -\frac{1}{9} \text{ or } -5$$

$$10x^2 - 43x - 35 = 0$$

$$(10x+7)(x-5) = 0$$

$$x = -\frac{7}{10} \text{ or } 5$$

$$8x^2 + 65x + 63 = 0$$

$$(8x+9)(x+7) = 0$$

$$x = -\frac{9}{8} \text{ or } -7$$

$$-3x^2 - 19x - 20 = 0$$

$$3x^2 + 19x + 20 = 0$$

$$(3x+4)(x+5) = 0$$

$$x = -\frac{4}{3} \text{ or } -5$$

$$-3x^2 - 10x + 7 = 0$$

$$x = \frac{10 \pm \sqrt{100+84}}{-6}$$

$$x = \frac{-5 \pm \sqrt{46}}{3}$$

$$-3x^2 + 14x - 8 = 0$$

$$3x^2 - 14x + 8 = 0$$

$$(3x-2)(x-4) = 0$$

$$x = \frac{2}{3} \text{ or } 4$$

$$-2x^2 + 21x - 49 = 0$$

$$2x^2 - 21x + 49 = 0$$

$$(2x-7)(x-7) = 0$$

$$x = \frac{7}{2} \text{ or } 7$$

$$-2x^2 + 21x - 27 = 0$$

$$2x^2 - 21x + 27 = 0$$

$$(2x-3)(x-9) = 0$$

$$x = \frac{3}{2} \text{ or } 9$$

$$-7x^2 + x + 8 = 0$$

$$7x^2 - x - 8 = 0$$

$$(7x - 8)(x + 1) = 0$$

$$x = \frac{8}{7} \text{ or } -1$$

$$3x^2 - 28x + 60 = 0$$

$$(3x - 10)(x - 6) = 0$$

$$x = \frac{10}{3} \text{ or } 6$$

$$-9x^2 - 82x - 80 = 0$$

$$9x^2 + 82x + 80 = 0$$

$$(9x + 10)(x + 8) = 0$$

$$x = -\frac{10}{9} \text{ or } -8$$

$$4x^2 - 3x - 7 = 0$$

$$(4x - 7)(x + 1) = 0$$

$$x = \frac{7}{4} \text{ or } -1$$

$$2x^2 + x - 3 = 0$$

$$(2x + 3)(x - 1) = 0$$

$$x = -\frac{3}{2} \text{ or } 1$$

$$4x^2 - 23x - 72 = 0$$

$$(4x+9)(x-8) = 0$$

$$x = -\frac{9}{4} \text{ or } 8$$

$$2x^2 - x - 1 = 0$$

$$(2x+1)(x-1) = 0$$

$$x = -\frac{1}{2} \text{ or } 1$$

$$10x^2 - 43x - 35 = 0$$

$$(10x+7)(x-5) = 0$$

$$x = -\frac{7}{10} \text{ or } 5$$

$$-5x^2 + 18x - 9 = 0$$

$$5x^2 - 18x + 9 = 0$$

$$(5x-3)(x-3) = 0$$

$$x = \frac{3}{5} \text{ or } 3$$

$$-4x^2 - 2x + 2 = 0$$

$$2x^2 + x - 1 = 0$$

$$(2x-1)(x+1) = 0$$

$$x = \frac{1}{2} \text{ or } -1$$

$$-3x^2 + 19x - 20 = 0$$

$$3x^2 - 19x + 20 = 0$$

$$(3x-4)(x-5) = 0$$

$$x = \frac{4}{3} \text{ or } 5$$

$$4x^2 - 13x - 35 = 0$$

$$(4x+7)(x-5) = 0$$

$$x = -\frac{7}{4} \text{ or } 5$$

$$7x^2 + 19x - 36 = 0$$

$$(7x-9)(x+4) = 0$$

$$x = \frac{9}{7} \text{ or } -4$$

$$-3x^2 + 4x + 7 = 0$$

$$3x^2 - 4x - 7 = 0$$

$$(3x-7)(x+1) = 0$$

$$x = \frac{7}{3} \text{ or } -1$$

$$3x^2 + 8x + 5 = 0$$

$$(3x+5)(x+1) = 0$$

$$x = -\frac{5}{3} \text{ or } -1$$

$$18x^2 - 61x + 40 = 0$$

$$(2x-5)(9x-8) = 0$$

$$x = \frac{5}{2} \text{ or } \frac{8}{9}$$

$$36x^2 - 85x + 9 = 0$$

$$(9x-1)(4x-9) = 0$$

$$x = \frac{1}{9} \text{ or } \frac{9}{4}$$

$$6x^2 - 5x - 6 = 0$$

$$(3x+2)(2x-3) = 0$$

$$x = -\frac{2}{3} \text{ or } \frac{3}{2}$$

$$28x^2 - 7x - 8 = 0$$

$$x = \frac{7 \pm \sqrt{49+896}}{56} = \frac{7 \pm 3\sqrt{105}}{56}$$

$$-6x^2 + 13x - 5 = 0$$

$$6x^2 - 13x + 5 = 0$$

$$(3x-5)(2x-1) = 0$$

$$x = \frac{5}{3} \text{ or } \frac{1}{2}$$

$$12x^2 - 28x + 15 = 0$$

$$(2x-3)(6x-5) = 0$$

$$x = \frac{3}{2} \text{ or } \frac{5}{6}$$

$$9x^2 + 9x - 4 = 0$$

$$(3x-1)(3x+4) = 0$$

$$x = \frac{1}{3} \text{ or } -\frac{4}{3}$$

$$-36x^2 - x + 21 = 0$$

$$36x^2 + x - 21 = 0$$

$$(4x-3)(9x+7) = 0$$

$$x = \frac{3}{4} \text{ or } -\frac{7}{9}$$

$$-14x^2 + 45x - 25 = 0$$

$$14x^2 - 45x + 25 = 0$$

$$(2x-5)(7x-5) = 0$$

$$x = \frac{5}{2} \text{ or } \frac{5}{7}$$

$$-20x^2 + 48x - 27 = 0$$

$$20x^2 - 48x + 27 = 0$$

$$(2x-3)(10x-9) = 0$$

$$x = \frac{3}{2} \text{ or } \frac{9}{10}$$

$$25x^2 - 70x + 48 = 0$$

$$(5x-6)(5x-8) = 0$$

$$x = \frac{6}{5} \text{ or } \frac{8}{5}$$

$$30x^2 + 53x + 21 = 0$$

$$(5x+3)(6x+7) = 0$$

$$x = -\frac{3}{5} \text{ or } -\frac{7}{6}$$

$$-28x^2 + 11x - 1 = 0$$

$$28x^2 - 11x + 1 = 0$$

$$(4x-1)(7x-1) = 0$$

$$x = \frac{1}{4} \text{ or } \frac{1}{7}$$

$$-9x^2 + 12x + 5 = 0$$

$$9x^2 - 12x - 5 = 0$$

$$(3x-5)(3x+1) = 0$$

$$x = \frac{5}{3} \text{ or } -\frac{1}{3}$$

$$27x^2 + 15x - 2 = 0$$

$$(9x-1)(3x+2) = 0$$

$$x = \frac{1}{9} \text{ or } -\frac{2}{3}$$

$$-6x^2 + 29x - 9 = 0$$

$$6x^2 - 29x + 9 = 0$$

$$(2x-9)(3x-1) = 0$$

$$x = \frac{9}{2} \text{ or } \frac{1}{3}$$

$$-28x^2 - x + 5 = 0$$

$$x = \frac{1 \pm \sqrt{1+560}}{-56} = \frac{-1 \pm \sqrt{561}}{56}$$

$$12x^2 + 64x + 45 = 0$$

$$(6x+5)(2x+9) = 0$$

$$x = -\frac{5}{6} \text{ or } -\frac{9}{2}$$

$$-10x^2 + 39x - 35 = 0$$

$$10x^2 - 39x + 35 = 0$$

$$(5x-7)(2x-5) = 0$$

$$x = \frac{7}{5} \text{ or } \frac{5}{2}$$

$$40x^2 - 29x - 18 = 0$$

$$(8x-9)(5x+2) = 0$$

$$x = \frac{9}{8} \text{ or } -\frac{2}{5}$$