

$$x^2 + x + 25$$

$$(x+5)^2 = -25 + 25$$

$$= \frac{b \pm \sqrt{b^2 - 4AC}}{2A} = x$$

radix

$\sqrt[n]{b}$ - base

$16\sqrt{16} = 10h$

$17\sqrt{16} = 11h$

$$144 = 1 \cdot 10^2 + 4 \cdot 10^1 + 4 \cdot 10^0$$

$$x^2 + 4x + 4$$

$$(2Ax+b) \pm \sqrt{b^2 - 4AC}$$

$$(2Ax+b)^2 - b^2 + 4AC = 0$$

$$(2Ax)^2 + 4Abx + 4AC = 0$$

$$(x+2)^2 = -4 + 2^2$$

$$x+2 = \sqrt{0} \text{ --- signifies integer roots}$$

$$10+2$$

$$12$$

$$Ax^2 + 4Abx + AC = 0$$

$$196 = 1 \cdot 10^2 + 9 \cdot 10^1 + 6 \cdot 10^0$$

$$(Ax^2 + bx + C)$$

$$\text{test if } \left(\frac{9}{2}\right)^2 \geq 6$$

$$\frac{81}{4} \geq 6 ?$$

$$20.25 \geq 6$$

$$x^2 + 8x + 16$$

$$100 + 80 + 16$$

$$x \leq 11$$

$$\frac{1089}{11^2}$$

$$121 \sqrt{1089}$$

$$\frac{b^2}{4} = -C$$

$$C + \frac{b^2}{4} = 0$$

$$(9x - Ax) = (6 + Ax)$$

$$A=1$$

$$\frac{(9x - Ax)^2}{4} = -6 - Ax$$

$$\log_x 1089 \leq 3$$

$$b^2 + 4C = 0$$

$$30^2 \mid 30^{+30} \mid 30^{+30} \mid 30^{+30} \mid 30^{+30} \mid 1089 = x^3$$

$$x^2 = 12.5$$

$$(9x - Ax)^2 = -24 - 4Ax$$

$$x^2 + 6x + 9$$

$$x^2 \leq 1089$$

$$x^3 \leq 1089 \quad 81x^2 = 19Ax^2 - Ax^2 =$$

$$x^2 (81 - 19A - A^2) = -24 - 4Ax$$

$$x+3 \mid 1089$$

$$x+3 \mid \sqrt{1089}$$

$$2x^2 + 2x + 5$$

$$x^2 + 8x + 16$$

$$(x+4)^2 = -4 + 16$$

$$9x - Ax = \sqrt{-24 - 4Ax}$$

$$\frac{9x - Ax}{2} = \sqrt{-6 - Ax}$$