

Algebra Cheat Sheet

Basic Properties & Facts

Arithmetic Operations

$$ab + ac = a(b + c)$$

$$\left(\frac{a}{b}\right) \div \frac{a}{c} = \frac{a}{bc}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

$$\frac{a-b}{c-d} = \frac{b-a}{d-c}$$

$$\frac{ab+ac}{a} = b+c, \quad a \neq 0$$

$$a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\frac{a}{\left(\frac{b}{c}\right)} = \frac{ac}{b}$$

$$\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

$$\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

$$\left(\frac{a}{b}\right) \div \left(\frac{c}{d}\right) = \frac{ad}{bc}$$

Exponent Properties

$$a^m a^n = a^{m+n}$$

$$(a^m)^n = a^{mn}$$

$$(ab)^n = a^n b^n$$

$$a^{-n} = \frac{1}{a^n}$$

$$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n = \frac{b^n}{a^n}$$

$$\frac{a^m}{a^n} = a^{m-n} = \frac{1}{a^{n-m}}$$

$$a^0 = 1, \quad a \neq 0$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$\frac{1}{a^{-n}} = a^n$$

$$a^{\frac{1}{n}} = \left(a^{\frac{1}{n}}\right)^n = \left(a^n\right)^{\frac{1}{n}}$$

Properties of Radicals

$$\sqrt[n]{a} = a^{\frac{1}{n}}$$

$$\sqrt[n]{ab} = \sqrt[n]{a} \sqrt[n]{b}$$

$$\sqrt[n]{\sqrt[n]{a}} = \sqrt[n]{a}$$

$$\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$$

$$\sqrt[n]{a^n} = a, \text{ if } n \text{ is odd}$$

$$\sqrt[n]{a^n} = |a|, \text{ if } n \text{ is even}$$

Properties of Inequalities

If $a < b$ then $a + c < b + c$ and $a - c < b - c$

If $a < b$ and $c > 0$ then $ac < bc$ and $\frac{a}{c} < \frac{b}{c}$

If $a < b$ and $c < 0$ then $ac > bc$ and $\frac{a}{c} > \frac{b}{c}$

Properties of Absolute Value

$$|a| = \begin{cases} a & \text{if } a \geq 0 \\ -a & \text{if } a < 0 \end{cases}$$

$$|a| \geq 0 \qquad \qquad \qquad |-a| = |a|$$

$$|ab| = |a||b| \qquad \qquad \qquad \left|\frac{a}{b}\right| = \frac{|a|}{|b|}$$

$$|a + b| \leq |a| + |b| \quad \text{Triangle Inequality}$$

Distance Formula

If $P_1 = (x_1, y_1)$ and $P_2 = (x_2, y_2)$ are two points the distance between them is

$$d(P_1, P_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Complex Numbers

$$i = \sqrt{-1} \qquad i^2 = -1 \qquad \sqrt{-a} = i\sqrt{a}, \quad a \geq 0$$

$$(a + bi) + (c + di) = a + c + (b + d)i$$

$$(a + bi) - (c + di) = a - c + (b - d)i$$

$$(a + bi)(c + di) = ac - bd + (ad + bc)i$$

$$(a + bi)(a - bi) = a^2 + b^2$$

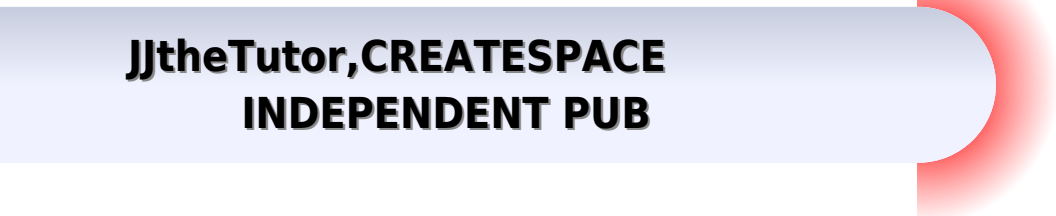
$$|a + bi| = \sqrt{a^2 + b^2} \quad \text{Complex Modulus}$$

$$\overline{(a + bi)} = a - bi \quad \text{Complex Conjugate}$$

$$\overline{(a + bi)}(a + bi) = |a + bi|^2$$

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web the half life of a radioactive isotope is the amount of time it takes for one half of the radioactive isotope to decay the half life of a specific radioactive isotope is constant it is unaffected by conditions and is independent of the initial amount of that isotope

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web section learning objectives by the end of this section you will be able to do the following explain radioactive half life and its role in radiometric dating calculate radioactive half life and solve problems associated with radiometric dating section key terms half life and the rate of radioactive decay unstable nuclei decay

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web solution if we compare the time that has passed to the isotope's half life we note that 44 0 s is exactly 4 half lives so using the previous equation n 4 substituting and solving results in the following less than one third of a gram of 20 f remains skill building exercise the half life of 44 ti is 60 0 y

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web solution 7 2 2 4 3 half lives 1 2 0 125 the amount remaining after 3 half lives 100 0 g $\times$ 0 125 12 5 g remaining problem 2 pd 100 has a half life of 3 6 days if one had 6.02×10 atoms at the start how many atoms would be present after 20 0 days solution 20 0 3 6 5 56 half lives

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web radioactive isotopes are used for blood flow monitoring cancer treatment paper mills carbon dating and smoke alarms each isotope used in these applications has a characteristic half life