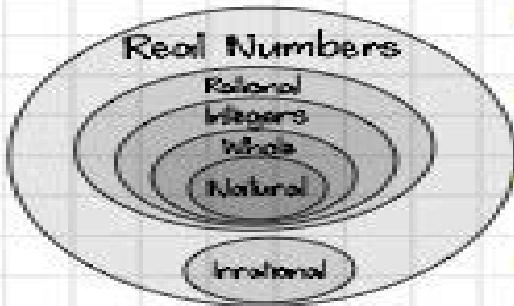


# Algebra 2 cheat sheet



The imaginary unit  $i$  is the square root of  $-1$ .

$$\sqrt{-1} = i \quad i^2 = -1$$

An imaginary number is a number that contains the imaginary unit  $i$ .  $\sqrt{-a} = i\sqrt{a}$  where  $a \geq 0$ .

complex number  $a + bi$

combination of a real number and an imaginary number

The conjugate of  $a + bi$  is  $a - bi$

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

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

$$x^{\frac{m}{n}} = \sqrt[n]{x^m} = (\sqrt[n]{x})^m$$

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

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

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

Compound interest is interest that applies not only to the principal, but also to previously accumulated interest.

$$A = P \left(1 + \frac{r}{n}\right)^{nt}$$

amount after  $t$  years  
principal  
annual interest rate  
compounds per year

## Real Numbers

$$R = \{-\infty, +\infty\}$$

## Whole Numbers

$$W = \{0, 1, 2, 3, 4, \dots\}$$

## Natural Numbers

$$N = \{1, 2, 3, 4, \dots\}$$

## Integers

$$Z = \{\dots, -2, -1, 0, 1, 2, \dots\}$$

## Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\log_x(y) = z$$

base  
the number we  
multiply by itself

logarithm  
the number  
of multiplications

If  $y = \log_b x$ , then  $x = b^y$

## Common log

The base is 10

$$\log x = \log_{10} x$$

$$\log_b a = \frac{\log a}{\log b}$$

$$\log_b b = 1 \quad \log_b 1 = 0$$

$$\text{Natural log} \quad e = 2.71828\dots$$

$$\ln x = \log_e x$$

$$\ln 1 = 0 \quad \ln e = 1 \quad \ln e^x = x$$

$\ln x$  and  $e^x$  are inverse functions.

$$\ln e = 1 \quad e^{\ln 3} = 3$$

$$\ln e^x = x$$

$$e^{\ln x} = x \quad e \ln x = x$$

$$b^x = b^y \rightarrow x = y$$

where  $b > 0$  and  $b \neq 1$

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web 1 in the given mixture the sum of all the mole fractions is equal to one  $x_a + x_b + \dots = 1$  the multiplication of the mole fraction by 100 gives the mole percentage 3 mole fraction is a unitless and dimensionless expression advantages of molar fraction mole fraction is not dependent on the temperature

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web nov 6 2023  $x_a = \frac{n_a}{n_{total}}$   $x_b = \frac{n_b}{n_{total}}$  and  $x_b = \frac{n_b}{n_{total}}$  note in the given mixture the sum of all the mole fractions present is equal to one  $x_a + x_b + \dots = 1$  when the mole fractions are multiplied by 100 they give the mole percentage mole fraction is a unitless and dimensionless expression image will be uploaded soon

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web jan 30 2020 ans the molality of solution is  $1 \text{ mol} / 1 \text{ kg}$  or  $1 \text{ m}$  example 02 11 11 g of urea  $nh_2CONH_2$  was dissolved in 100 g of water calculate the molarity and molality of the solution given  $n = 14 \text{ H} + 1 \text{ C} + 12 \text{ O} + 16$  given mass of solute urea 11 11 g mass of solvent water 100 g  $0.1 \text{ kg}$  to find molarity of solution solution

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web you may work out the mole fractions on your own problem 5 what is the mass of a sample of a 0 449 molal kbr that contains 2 92 kg of water 1 molality moles solute divided by kilograms solute 0 449 mol kg x 2 92 kg x 1 31108 mol of kbr 2 moles times molar mass equals grams 1 31108 mol 119 0023 g mol 156 g kbr

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web calculate the mass percent mole fraction molality and molarity of hexane c 6 h 14 d 0 660 g cm 3 when it is mixed with heptane c 7 h 12 d 0 684 g cm3 in a 35 0 55 0 ml ratio assume that the volumes are additive

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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