

# LOGARITHMIC & EXPONENTIAL EQUATIONS Review!

## LOGARITHMIC EQUATIONS

1.  $\log_2(x+13) = \log_2(3-x)$

$$x+13 = 3-x$$

$$2x = -10$$

$$x = \boxed{-5}$$

3.  $2 \cdot \ln(a+3) = \frac{1}{2} \cdot \ln 16 + \ln(a+7)$

$$\ln(a+3)^2 = \ln 16^{\frac{1}{2}} + \ln(a+7)$$

$$\ln(a^2 + 6a + 9) = \ln(2a + 14)$$

$$a^2 + 6a + 9 = 2a + 14$$

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

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

$$a = \boxed{-5, 1}$$

$$a = \boxed{-5, 1}$$

5.  $\log_2(5v+23) - 9 = -2$

$$\log_2(5v+23) = 7$$

$$2^7 = 5v + 23$$

$$128 = 5v + 23$$

$$105 = 5v$$

$$v = \boxed{21}$$

7.  $\ln(r+1) + 3 \cdot \ln 2 = 7$

$$\ln(r+1) + \ln 2^3 = 7$$

$$\ln_e(8r+8) = 7$$

$$e^7 = 8r + 8$$

$$\ln 6.63 = 8r + 8$$

$$\ln 8.63 = 8r$$

$$r = \boxed{36.08}$$

2.  $\log_2(n^2 + 13) = \log_2(n-1) + \log_2(n+3)$

$$\log_2(n^2 + 13) = \log_2(n-1)(n+3)$$

$$n^2 + 13 = n^2 + 2n - 3$$

$$16 = 2n$$

$$n = \boxed{8}$$

4.  $\log(3c+4) - \log(c-6) = \log(c+6)$

$$\log \frac{3c+4}{c-6} = \log c+6$$

$$\frac{3c+4}{c-6} = c+6$$

$$3c+4 = c^2 - 3c - 40$$

$$0 = c^2 - 6c - 40$$

$$0 = (c-8)(c+5) \quad c = \boxed{8, -5} \quad c = \boxed{8}$$

6.  $\log_{10}(p+5) - \log_{10}(p-2) = \frac{1}{2}$

$$\log_{10} \frac{p+5}{p-2} = \frac{1}{2}$$

$$10^{\frac{1}{2}} = \frac{p+5}{p-2}$$

$$4 = \frac{p+5}{p-2}$$

$$4p-8 = p+5$$

$$p = \boxed{13/3}$$

8.  $\frac{1}{3} \cdot \log_7 64 + 2 \cdot \log_7 n = 2$

$$\log_7 64^{\frac{1}{3}} + \log_7 n^2 = 2$$

$$\log_7 4n^2 = 2$$

$$4n^2 = 7^2$$

$$n^2 = 49/4$$

$$n = \boxed{-7/2, 7/2}$$

$$n = \boxed{7/2}$$

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**Northeastern University (Boston,  
Mass.). Lincoln Institute**

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web this paper proposes a system which will measure the traffic based on the density of the vehicles within the particular longitude and latitude this splendid traffic control system offers efficient management of traffic and reliability over the existing systems

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web working of density based traffic light controller using arduino the working of the project is divided into three steps if there is traffic at all the signals then the system will work normally by controlling the signals one by one if there is no traffic near a signal then the system will skip this signal and will move on to the next one

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web aug 30 2016 last updated 20 sep 2023 pdf the project is aimed at designing a density based dynamic traffic signal system where the timing of signal will change automatically on sensing find

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web 41 simulation of density based traffic control system using proteus 7 1 497 fig 3 lock diagram of density based traffic control system table 2 no of components used and their quantity components used quantity animated leds 12 4 red 4 yellow

and 4 green arduino uno r3 1 proximity infrared obstacle sensor 4 battery 4 logic state 4  
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web apr 3 2020 better traffic management requires traffic signal control based on vehicle density one such technique proposed in this paper finds the solution to traffic flow control depending on the number of vehicles on the lane it has two separate systems to control the traffic flow

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web apr 15 2023 in this paper we have proposed a density based traffic control system using proteus 7 the rest of the paper has been structured as follows in sect 2 we have discussed the existing literature and in sect 3 we have described our proposed work along with the operational model

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web may 19 2018 it allocates equal time slots to each road irrespective of the traffic density this creates unnecessary waiting for drivers which is not possible every time therefore we propose density based traffic control system which allocates different time slots to each road according to vehicle density

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web sep 1 2020 the goal of this work is to build a density based dynamic traffic signal system in which the signal timing changes automatically dependent on the traffic density at every given

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web marie curie called this radioactivity radioactivity is the spontaneous breakdown of an atom s nucleus by the emission of particles and or radiation radiation is the emission of energy through space in the form of particles and or waves nuclear reactions are very different from chemical reactions

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web problem 3 1 1 17 3 1 1 17 write a nuclear reaction for each step in the formation of pb 82208 pb 82 208 from th 90228 th 90 228 which proceeds by a series of decay reactions involving the step wise emission of  $\alpha$   $\alpha$   $\alpha$   $\alpha$   $\beta$   $\beta$   $\alpha$  particles in that order answer

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web cancer cells are bombarded with radiation and become inactive b radiation melts cancer cells c cancer cells are burned up by radiation d radiation is used to stimulate the growth of cancer cells 2 what is the term for an ongoing series of nuclear reactions

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web write a balanced equation for each of the following nuclear reactions bismuth 212 decays into polonium 212 beryllium 8 and a positron are produced by the decay of an unstable nucleus neptunium 239 forms from the reaction of uranium 238 with a neutron and then spontaneously converts into plutonium 239

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web radioactivity a nucleus that is not permanently stable is radioactive and eventually decays into another although the decay of a particular radioactive nucleus is random 50 of a collection of radioactive nuclei decays in one

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web positron answer b explanation the gamma rays leave the atomic number and mass numbers unaltered when they leave gamma rays in turn lower down the energy of the nucleus from a high energy state to a lower energy state this happens by the release of some electromagnetic radiation by the nucleus q4

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web jun 28 2022 the two general kinds of nuclear reactions are nuclear decay reactions and nuclear transmutation reactions in a nuclear decay reaction also called radioactive decay an unstable nucleus emits radiation and is transformed into the nucleus of one or more other elements

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web the answer is nuclear radioactivity that is high energy particles produced in radioactive decays heat earth from the inside figure pageindex 6 figure pageindex 6 earth is heated by nuclear reactions alpha beta and gamma decays without these reactions earth s core and mantle would be much cooler than it is now

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web induced radioactivity occurs when a previously stable material has been made radioactive by exposure to specific radiation most radioactivity does not induce other material to become radioactive this induced radioactivity was discovered by irène curie and f

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web a nuclear fuel a fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction the radioactive isotope is contained in tubes called fuel rods a moderator a moderator slows neutrons produced by nuclear reactions so that they can be absorbed by the fuel and cause additional nuclear reactions a coolant

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web the amount of fissionable material required so that each fission reaction produces approximately one more fission

reaction is study with quizlet and memorize flashcards containing terms like bubble chamber alpha particle gamma ray and more

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web ionizing radiation interacts with matter by scattering from electrons and nuclei in the substance based on the law of conservation of momentum and energy explain why electrons tend to absorb more energy than nuclei in these interactions 4 what characteristics of radioactivity show it to be nuclear in origin and not atomic 5

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web as with chemical reactions nuclear reactions are always balanced when a nuclear reaction occurs the total mass number and the total charge remain unchanged nuclei that have unstable n p ratios undergo spontaneous radioactive decay