

Problem Solutions Chapter #8 Giancoli 6th Edition

• **Problem #8:**

QUESTION: A rotating merry-go-round makes one complete revolution in 4.0 seconds (a) What is the linear speed of a child seated 1.2 meter from the center? (b) What is her acceleration?

ANSWER: The linear or tangential velocity  $V = \omega R$  where  $R = 1.2$  m is the distance to the axis of rotation. The period of revolution is  $T = 4.0$  sec/cycle so the frequency  $f = 1/4$  cycles/sec = 0.25 Hertz and the angular frequency in radians per second is  $\omega = 2\pi f = 1.57$  Rad/s. The linear speed  $V = \omega R = 1.57$  Rad/s  $\times$  1.2 m = 1.9 m/s. The tangential acceleration is zero because it seems  $\omega$  is constant (and so the angular acceleration is zero). The radial acceleration is  $V_p = V^2/R = \omega^2 R = 2.96$  m/s<sup>2</sup> in the radial direction toward the center of the merry-go-round.

$$T = 4.0 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$1.5708$$

$$R = 1.2 \text{ m}$$

$$V = \omega \cdot R$$

$$1.88496$$

$$a = V^2 / R$$

$$2.96088$$

• **Problem #9**

Calculate the angular velocity of the Earth (a) as it orbits the Sun and (b) about its axis.

ANSWER:  $T = 365$  days/cycle for the Earth going about the Sun.  $f = 1/T$  is the frequency in cycles/sec and  $\omega = 2\pi f$  is the angular frequency in Rad/sec and  $\omega = 1.2 \times 10^{-7}$  Rad/s.

$$T = 365 \cdot 24 \cdot 60 \cdot 60 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$1.99228 \times 10^{-7}$$

PART B:  $T = 24$  hours per day and this corresponds to  $\omega = 7.27 \times 10^{-5}$  Rad/s.

$$T = 24 \cdot 60 \cdot 60 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$0.0000727221$$

• **Problem #16**

An automobile engine slows down from 4500 rpm to 1200 rpm in 2.5 seconds. Calculate (a) its angular acceleration  $\alpha$  assuming it is constant.  $2\pi$  Rad = 1 Rev

$$\omega f = 1200 \cdot \pi \cdot (2 \pi \cdot \pi) \text{ ;}$$

$$\omega 0 = 4500 \cdot \pi \cdot (2 \pi \cdot \pi) \text{ ;}$$

$$t = 2.5 \text{ s}$$

$$\alpha = \frac{\omega f - \omega 0}{t}$$

$$-8292.8$$

The minus sign means there is a deceleration or slowing down.

Part (b) Calculate the total number of revolutions it makes in the time  $t = 2.5$  sec.

ANSWER:

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**Camilla Rothe**



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$\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{H}_2$  chemical equation balancer - Oct 13 2023

web magnesium nitric acid magnesium nitrate dihydrogen  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{H}_2$  is a single displacement substitution reaction where one mole of solid magnesium mg and two moles of aqueous nitric acid  $\text{HNO}_3$  react to form one mole of aqueous magnesium nitrate  $\text{Mg}(\text{NO}_3)_2$  and one mole of dihydrogen  $\text{H}_2$  gas show chemical

**how to balance  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{H}_2$  breslyn.org** - Jun 09 2023

web when balancing chemical equations our goal is to have the same number of each type of atom on both sides of the equation only change the coefficients these are the numbers in front substances never change the subscripts the small numbers after elements

how do you balance  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{H}_2$  socratic - Mar 06 2023

web mar 4 2018  $\text{Mg} + 2\text{HNO}_3 \rightarrow \text{Mg} + \text{H}_2$  on the left side there are 1 magnesium in elemental form  $\text{H}_2$  there are 2 molecules of nitric acid each acid has one hydrogen so two molecules of nitric acid is 2 hydrogens n 2 there are 2 molecules of nitric acid each acid has one nitrogen so two molecules of nitric acid is 2 nitrogens o 6

[solved 1 enter balanced molecular equation for the reaction](#) - Apr 26 2022

web chemistry questions and answers 1 enter balanced molecular equation for the reaction between nitric acid and magnesium hydroxide express your answer as a chemical equation including phases 2 enter a net ionic equation for the reaction between nitric acid and magnesium hydroxide express your answer as a chemical equation including  $\text{MgCO}_3 + \text{HNO}_3 \rightarrow \text{Mg} + \text{NO}_3 + 2\text{H}_2\text{O} + \text{CO}_2$  chemical equation - Jul 10 2023

web magnesium carbonate nitric acid magnesium nitrate water carbon dioxide one mole of magnesium carbonate  $\text{MgCO}_3$  and two moles of nitric acid  $\text{HNO}_3$  react to form one mole of magnesium nitrate  $\text{Mg}(\text{NO}_3)_2$  one mole of water  $\text{H}_2\text{O}$  and one mole of carbon dioxide  $\text{CO}_2$  show chemical structure image reactants

**how do you balance  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + \text{H}_2$**  byju s - Feb 05 2023

web magnesium is already balanced on the reactant and product side balancing nitrogen by multiplying  $\text{HNO}_3$  by 2 we get  $\text{Mg} + 2\text{HNO}_3 \rightarrow \text{Mg} + \text{Mg}(\text{NO}_3)_2 + \text{H}_2$  s magnesium 2 nitric acid 2 s magnesium nitrate 2 g hydrogen gas oxygen and hydrogen get automatically balanced by balancing nitrogen

[\$\text{Mg} + \text{NO}\_3 + 2\text{H}\_2\text{SO}\_4 \rightarrow \text{MgSO}\_4 + \text{HNO}\_3\$  chemical equation](#) - Apr 07 2023

web magnesium nitrate sulfuric acid magnesium sulfate nitric acid

[give the balanced chemical equation for the following reaction](#) - Aug 31 2022

web the balanced net ionic equation for the reaction of magnesium carbonate with nitric acid is  $\text{MgCO}_3 + 2\text{H}^+ \rightarrow \text{Mg}^{2+} + \text{CO}_2 + \text{H}_2\text{O}$  b  $\text{Mg}^{2+} + \text{CO}_3^{2-} + 2\text{H}^+ \rightarrow \text{Mg} + \text{CO}_2 + \text{H}_2\text{O}$  write the balanced equation when nitric acid reacts with calcium hydroxide to produce water and calcium nitrate

**magnesium with nitric acid equation thefitnessmanual** - Feb 22 2022

web magnesium oxide nitric acid gives rise to a magnesium phosphate hydrogen balanced equation on may 27 2019 how do you balance magnesium and nitric acid you ll need to count all of atoms on both directions of the chemical equation to balance  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg} + \text{NO}_3 + 2\text{NO}_2 + \text{H}_2\text{O}$

**magnesium and nitric acid balanced equation** - Oct 01 2022

web magnesium and nitric acid balanced equation general chemistry oct 29 2021 the eleventh edition was carefully reviewed with an eye toward strengthening the content available in owlv2 end of chapter questions and updating the presentation nomenclature changes and the

[how to balance  \$\text{HNO}\_3 + \text{Mg} \rightarrow \text{Mg}\(\text{NO}\_3\)\_2 + \text{H}\_2\$](#)  breslyn org - Sep 12 2023

web how to balance  $\text{HNO}_3 + \text{Mg} \rightarrow \text{Mg(NO}_3)_2 + \text{H}_2$  word equation nitric acid magnesium magnesium nitrate hydrogen gas type of chemical reaction for this reaction we have a single displacement reaction balancing strategies in this single displacement reaction the mg replaces the h in the  $\text{HNO}_3$

*how to balance  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg(NO}_3)_2 + \text{H}_2$  magnesium youtube* - May 08 2023

web nov 20 2020 in this video we ll balance the equation  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg(NO}_3)_2 + \text{H}_2$  and provide the correct coefficients for each compound to balance  $\text{Mg} + \text{HNO}_3 \rightarrow \text{Mg(NO}_3)_2 + \text{H}_2$  you ll need to be

**lecture 13 acid base reactions widener university** - Dec 03 2022

web magnesium hydroxide nitric acid balanced total equation  $\text{Mg(OH)}_2 + \text{HNO}_3 \rightarrow \text{Mg(NO}_3)_2 + \text{H}_2\text{O}$  total ionic equation  $\text{Mg}^{2+} + 2\text{OH}^- + 2\text{H}^+ + 2\text{NO}_3^- \rightarrow \text{Mg}^{2+} + 2\text{NO}_3^- + 2\text{H}_2\text{O}$  net ionic equation  $2\text{OH}^- + 2\text{H}^+ \rightarrow 2\text{H}_2\text{O}$  sulfuric acid and lithium hydroxide balanced total equation  $\text{H}_2\text{SO}_4 + 2\text{LiOH} \rightarrow \text{Li}_2\text{SO}_4 + 2\text{H}_2\text{O}$