

LESSON
1.4**Practice B**

For use with pages 26–32

Substitute the given value of x into the equation. Then solve the equation for y .

1. $7x - 3y = 6; x = 3$

2. $6x + 5y = -7; x = -2$

3. $xy = 12 + 3x; x = 4$

4. $\frac{2}{3}x = 2y - \frac{2}{5}; x = -9$

5. $\frac{2}{3}y + \frac{1}{2}x = 1; x = 12$

6. $x - 2y = 3xy + 1; x = -2$

Solve the equation for y . Then find the value of y for the given value of x .

7. $3x - 6y = 6; x = 2$

8. $-2x + 2 = 5y - 1; x = 5$

9. $2xy + 1 = xy + 3; x = 2$

10. $\frac{1}{2}x - y = \frac{3}{2}x - 3; x = 7$

11. $\frac{3}{4}x + \frac{4}{7}y = \frac{5}{4}x - 1; x = 8$

12. $\frac{3}{5}y - 4x = 3 - 2y; x = 9$

Solve the formula for the indicated variable.13. *Fahrenheit to Celsius*

Solve for F : $C = \frac{5}{9}(F - 32)$

15. *Perimeter of a Triangle*

Solve for c : $P = a + b + c$

17. *Area of a Trapezoid*

Solve for b_1 : $A = \frac{1}{2}(b_1 + b_2)h$

19. *Lateral Surface Area of a Right Circular Cylinder*

Solve for h : $S = 2\pi rh$

14. *Perimeter of a Parallelogram*

Solve for b : $P = 2b + 2s$

16. *Area of a Rhombus*

Solve for d_1 : $A = \frac{1}{2}d_1d_2$

18. *Volume of a Right Circular Cylinder*

Solve for h : $V = \pi r^2 h$

20. *Volume of a Right Circular Cone*

Solve for h : $V = \frac{\pi r^2 h}{3}$

Solve the formula for the indicated variable. Then use the given information to find the value of the variable. Include units of measure in the answer.21. *Area of a Parallelogram*

Solve for h : $A = bh$

Find h when $A = 81 \text{ cm}^2$ and $b = 9 \text{ cm}$.

22. *Celsius to Fahrenheit*

Solve for C : $F = \frac{9}{5}C + 32$

Find C when $F = 77^\circ\text{F}$.

Basketball A regulation size basketball has a volume of 455.9 cubic inches. Use this information to answer the following questions. Approximate your answers to the nearest tenth.23. The formula for the volume of a sphere is $V = \frac{4}{3}\pi r^3$. What is the radius of the basketball?

24. What is the diameter of the basketball?

25. The formula for the circumference of the basketball is $C = 2\pi r$. If the circumference of a basketball is 29 inches, is it a regulation size basketball?

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web jan 26 2016 the solubility product or ksp is a way of showing how effective a chemical is at dissolving into an aqueous solution the higher the ksp the more the chemical will dissolve into that solvent for this lab calcium hydroxide is created then ionized Ca(OH)_2 when calcium is put in water reacts as follows $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

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web k sp of calcium hydroxide 1 author j m mccormick last update ocober 13 2013 introduction an equilibrium constant K is related to ΔG for a process through eqn 1 and as long as ΔH and ΔS are independent of temperature eqn 1 can be combined with eqn 2 to determine ΔH and ΔS from the temperature dependence of K

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web sep 18 2020 in this experiment we will titrate a saturated calcium hydroxide solution with a standardized hcl solution we will determine the hydroxide ion concentration for the saturated calcium hydroxide

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the K_{sp} of the compound you will do this by titrating the prepared Ca(OH)_2 solution with a standard hydrochloric acid solution

chem 114 exp 9 mike university of rhode island - May 04 2023

web in today's experiment you will determine the solubility product K_{sp} of calcium hydroxide Ca(OH)_2 by measuring the concentration of Ca(OH)_2 in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

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web expert verified chem 182 determining the K_{sp} of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of Ca(OH)_2 is represented in equation form as shown below $\text{Ca(OH)}_2(\text{s}) \rightleftharpoons \text{Ca}^{2+}(\text{aq}) + 2\text{OH}^{-}(\text{aq})$ the solubility product expression describes in mathematical terms the equilibrium

K_{sp} for calcium hydroxide university of manitoba - Dec 31 2022

web K_{sp} for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a pH regulating agent notice that calcium hydroxide is divalent and thus has twice

K_{sp} calcium hydroxide chem132 determination of the K_{sp} of calcium - Jun 24 2022

web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution $\text{Ca(OH)}_2 \rightarrow \text{Ca}^{2+} + 2\text{OH}^{-}$ $5 \times 10^{-2} \text{ M}$ calcium ions $5 \times 10^{-2} \text{ M}$ 0 M hydroxide ions calculate calcium hydroxide K_{sp} using the concentrations of calcium ions and hydroxide ions

solubility of calcium hydroxide wpmu dev - Oct 29 2022

web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the K_{sp} of a slightly soluble basic salt and how solubility changes with temperature K_{sp} is another form of equilibrium expression that deals with solubility the reaction that will take place is $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^{-}$

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web question experiment 8 determining K_{sp} for calcium hydroxide post lab report sheet data table 2 points trial 1 trial 2 HCl molarity 0.050 M volume of filtered Ca(OH)_2 solution mL 5.00 5.00 3.71 13.75 equivalence point volume mL OH^{-} in saturated Ca(OH)_2 M Ca^{2+} in saturated Ca(OH)_2 M K_{sp} of Ca(OH)_2 average K_{sp} of Ca(OH)_2

chemistry 1210 lab 11 experiment 11 determining the K_{sp} of calcium - Sep 08 2023

web the chemical equation used was $\text{Ca(OH)}_2(\text{s}) \rightleftharpoons \text{Ca}^{2+}(\text{aq}) + 2\text{OH}^{-}(\text{aq})$ the solubility product was determined to be $K_{sp} \text{ Ca}^{2+} \text{ OH}^{-}$ from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium

hydroxide was filtered before starting the titration

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web jul 12 2023 because the concentration of a pure solid such as $\text{Ca}_3(\text{PO}_4)_2$ is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore $K_{\text{Ca}_3(\text{PO}_4)_2} = \frac{[\text{Ca}^{2+}]^3 [\text{PO}_4^{3-}]^2}{K_{\text{sp}}}$

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web lab report 8 determining the ksp of calcium hydroxide the purpose of this was to titrate a saturated $\text{Ca}(\text{OH})_2$ solution with a standard HCl solution and find the ksp or the OH^- concentration was found and then the concentration was found and used for this experiment a titration of calcium hydroxide with hydrochloric acid

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web question determining the ksp of calcium hydroxide $\text{Ca}(\text{OH})_2$ s Ca^{2+} aq 2OH^- aq for this experiment the titration of calcium hydroxide with hydrochloric acid was investigated determining the ksp of calcium hydroxide $\text{Ca}(\text{OH})_2$ s Ca^{2+} aq 2OH^- aq for this experiment the titration of calcium

solved chem 182 experiment 8 determining the ksp of calcium chegg - Sep 27 2022

web question chem 182 experiment 8 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water solution of $\text{Ca}(\text{OH})_2$ is represented in equation form solution of calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous as shown below

determination of the ksp of calcium hydroxide autosaved - Jun 05 2023

web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest ksp value to the theoretical ksp for $\text{Ca}(\text{OH})_2$ was the determination through pH method 2 introduction calcium hydroxide is a strong base soluble in water

exp 4 determining the solubility product constant ksp of calcium - Jul 26 2022

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web question lab 9 determination of the solubility product ksp of calcium hydroxide introduction ionic compounds that are classified as insoluble based on solubility rules are actually slightly soluble each of these insoluble compounds actually dissolves to

experimental determination of the solubility product of calcium hydroxide - Nov 29 2022

web we will filter the solid calcium hydroxide from the solution and then titrate the dissolved calcium hydroxide in solution with a known concentration of hydrochloric acid using titrimetric calculations we will determine the Ca^{2+} and OH^- concentrations in solution

ksp of calcium hydroxide lab report for determining the ksp of - Oct 09 2023

web calculate the ksp for calcium hydroxide $\text{ksp Ca(OH)}_2 = 5 \times 10^{-6}$ find the accepted value of the ksp for calcium hydroxide and compare it with your value discuss the discrepancy and suggest possible sources of experimental error
accepted value for ksp for sodium hydroxide is 5×10^{-6}