

9. Add.

$$\frac{4}{z^2} + \frac{6}{z} = \frac{4}{z^2} + \frac{6(z)}{z(z)} = \frac{4}{z^2} + \frac{6z}{z^2} = \frac{6z+4}{z^2} = \boxed{\frac{2(3z+2)}{z^2}}$$

10. Subtract.

$$\frac{3t}{t+6} - \frac{4t}{6+t} = \frac{3t}{t+6} - \frac{4t}{t+6} = \boxed{\frac{-t}{t+6}}$$

11. Simplify.

$$\frac{3x+5}{9x^2-25} - \frac{15x}{25x-15x^2} = \frac{3x+5}{(3x-5)(3x+5)} - \frac{15x}{-5x(3x-5)} = \frac{1}{(3x-5)} + \frac{3}{(3x-5)} = \boxed{\frac{4}{3x-5}}$$

12. Simplify.

$$\frac{\frac{2}{t} + \frac{3}{t^2}}{\frac{5}{t^2} + \frac{1}{t}} = \frac{\left(\frac{2}{t} + \frac{3}{t^2}\right)t^2}{\left(\frac{5}{t^2} + \frac{1}{t}\right)t^2} = \frac{\frac{2t^2}{t} + \frac{3t^2}{t^2}}{\frac{5t^2}{t^2} + \frac{t^2}{t}} = \frac{2t + 3}{5 + t} = \boxed{\frac{2t+3}{t+5}}$$

13. Solve and check for extraneous answers.

$$\frac{x+24}{x} = \frac{x}{4}$$

$4x+96 = x^2$   
 $0 = x^2 - 4x - 96$   
 $(x-12)(x+8)$   
 $x=12 \quad x=-8$

$\checkmark \quad \frac{x+24}{x} = \frac{x}{4}$   
 $\frac{12+24}{12} = \frac{12}{4}$   
 $\frac{36}{12} = \frac{12}{4}$   
 $3 = 3$

$\frac{x+24}{x} = \frac{x}{4}$   
 $-\frac{8+24}{8} = -\frac{8}{8}$   
 $-\frac{32}{8} = -1$   
 $-4 = -1$

$x=12$

$x=-8$

14. Solve and check for extraneous answers.

$$\frac{3t}{(t-5)(t+4)} = -\frac{6t}{(t-5)(t+4)(t-2)}$$

$$\frac{3t(t-2)}{(t-5)(t+4)(t-2)} = -\frac{6t}{(t-5)(t+4)(t-2)}$$

$$3t^2 - 6t = -6t^2 - 24t$$

$$9t^2 - 7t + 10 = 0$$

$$9t(t+2) = 0$$

$9t=0 \quad t+2=0$   
 $t=0 \quad t=-2$

15. Graph. Include asymptotes.

$$g(x) = \frac{1}{x-3}$$

$x-3 \neq 0 \quad y \neq 0$   
 $x \neq 3$

16. State the domain and range.

$$f(x) = \frac{1}{x-4} + 5$$

$D = \{x \mid x \neq 4\}$   
 $R = \{y \mid y \neq 5\}$

17. State the domain and range.

$$f(x) = -\frac{3}{x} - 3$$

$D = \{x \mid x \neq 0\}$   
 $R = \{y \mid y \neq -3\}$

18. Identify asymptotes and x and y intercepts.

$$f(x) = \frac{x}{x-5}$$

$P(x) \rightarrow x=0$   
 $Q(x) \rightarrow x=5$

zeros

$$\boxed{VA=5}$$

$P(x)$  &  $Q(x)$  have same power

$$\text{so } HA = \frac{1}{1} = 1$$

x-intercept  $(0,0)$

y-intercept  $(0,0)$

$$f(x) = \frac{0}{0-5} = \frac{0}{-5} = 0$$

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web chemistry questions and answers chem 1112 general chemistry ii lab exp 16b an acid base titration curve postlab assignment titration curve a titration curve is a plot of the ph of a solution as a function of the amount of base usually in ml added to an acidic solution or as the amount of acid added to a basic solution the base is added to

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web oct 5 2023 acid base titration theory procedure self evaluation simulator assignment reference feedback objective to determine the amount of substance in a solution of unknown concentration using various titrimetric methods theory titration the word titration comes from the latin word titulus which means inscription or title

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web where the salt is the conjugate base of the acid the four parts of the titration curve are described below and you should look to the appropriate text section to see how they are treated pure acid 0 mL of base is added section 17.3.2.1

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web solution a titrant volume 0 mL the solution pH is due to the acid ionization of HCl because this is a strong acid the

ionization is complete and the hydronium ion molarity is 0.100 M the pH of the solution is then  $\text{pH} = -\log 0.100 = 1.00$

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web what is a titration a titration is an analytical procedure used to determine the accurate concentration of a sample by reacting it with a standard solution one type of titration uses a neutralization reaction in which an acid and a base react to produce a salt and water

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web at the equivalence point in an acid base titration moles of base = moles of acid and the solution only contains salt and water acid base titrations are monitored by the change of pH as titration progresses

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web expert answer 100% 2 ratings the example is based upon Henderson-Hasselbalch equation the equation gives relation between pH and pKa of weak acid the equation is  $\text{pH} = \text{pK}_a + \log \frac{[\text{salt}]}{[\text{acid}]}$  at equivalence point all are equal view the full answer transcribed image text

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web titration curves source openstax chemistry atoms first 2e strong acid strong base titrations when titrating a strong acid such as hydrochloric acid with sodium hydroxide you are reacting the HCl directly with NaOH  $\text{HCl}(\text{aq}) + \text{NaOH}(\text{aq}) \rightarrow \text{H}_2\text{O}(\text{l}) + \text{NaCl}(\text{aq})$

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web ab acid base titration curves purpose the purpose of this lab is to determine the shape of acid base titration curves theoretically and experimentally and to use an acid base titration to measure the effectiveness of antacid tablets summary a titration curve is the plot of the pH value of a solution vs the amount of titrant added

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web Aug 30 2022 acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity the reagent titrant is the solution with a known molarity that will react with the analyte

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web ph titration graph 1 lab data provide columns a and b 2 a graph of ph column b plotted as ordinate vs volume column a as abscissa provides a titration curve as illustrated by graph 1 or 2 below 3 estimate of the midpoint of the steeply rising section of the titration curve provides an evaluation of the equivalence point

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web acid base titration lab report jessica chung chem 267 lab date completed 25 september 2019 date turned in 9 october 2019 figure 1 acid base titration curve from titration with indicator for part 1 volume of naoh added ml ph of the solution 4 5 4 6 4 6 5 9 5 9

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web acid base reactions can be used to determine concentrations of an acid or a base using stoichiometric calculations and titrimetric analysis the volume of a solution required to react

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web background plot of the ph of a solution against the volume of titrant added is called a titration curve the ph can be measured directly with a ph meter while titrant is added from a buret for the acids used in this experiment the titrant will always be a 0.1 M solution of the strong base NaOH

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web oct 30 2022 there are two basic types of acid base titrations indicator and potentiometric in an indicator based titration you add another chemical that changes color at the ph equal to the equivalence point when the acid and base are in

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web rp 1 make up a volumetric solution and carry out a simple acid base titration physical chemistry acids and bases ph curves titrations and indicators titrations of acids with bases students should be able to perform calculations for these titrations based on experimental results inorganic chemistry transition metals variable

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web strong acids and strong bases completely ionize in solution resulting in water and a salt for a weak acid there is only partial ionization the titration curve of a strong base strong acid showed a stretched out curve as it started with a slow gradual change in ph as it reached the equivalence point