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CHAPTER **15** REVIEW

Acids and Bases

SECTION 15-1

Name the following c	ompounds as acids:
	a. H ₂ SO ₄
	b. H ₂ SO ₃
	c. H ₂ S
	d. HClO ₄
	e. hydrogen cyanide
	Which (if any) of the acids mentioned in item 1 are binary acids?
Write formulas for the	e following acids:
	a. nitrous acid
	b. hydrobromic acid
	c. phosphoric acid
	d. acetic acid
	e. hypochlorous acid
Calcium selenate has	the formula CaSeO ₄ .
	a. What is the formula for selenic acid?
	b. What is the formula for selenous acid?
	to identify two metals that will not generate hydrogen gas when treated with
Write balanced molec a. aluminum metal w	rular equations for the following reactions of acids and bases:
	e solution with acetic acid

Jame		Date	Class
ECTION 1	5-1 continued		
7. Write	net ionic equations that repres	sent the following reactions	:
a. the	ionization of HClO ₃ in water	:	
b. NH	₃ functioning as an Arrhenius	s base	
8. a. Exp	plain how strong acid solution	ns conduct an electric curre	nt.
	ll a strong acid or a weak acid stant? Explain your answer.	d conduct electricity better,	assuming all other factors remain
9. Most a	cids react with solid carbonat	tes. For example:	
	$CaCO_3(s) + HCl(s)$	$aq) \rightarrow \text{CaCl}_2(aq) + \text{H}_2\text{O}(l)$	$+ CO_2(g)$ (unbalanced)
a. Bal	ance the above equation.		
b. Wr	ite the net ionic equation for t	the above reaction.	
	c. Identify al	ll spectator ions in this syst	em.
	d. How many	y liters of CO ₂ form at STI	P if 5.0 g of CaCO ₃ are treated with

excess hydrochloric acid? Show all your work.