

Name _____

Chemistry 12

Acid/Base Basics and Kw

- 1.) Write the net ionic equation that occurs when any strong acid combines with a strong base. Be sure to include states! (2marks)

_____ → _____

- 2.) Circle the member of the following pairs that is the stronger ACID.
(3 marks)

a) HSO_4^- or HNO_2

b) HNO_3 or HIO_3

c) H_3BO_3 or HF

- 3.) H_2Te is a weaker acid than HCO_3^- . Write the conjugate bases for both acids and write which is the stronger base. (3 marks)

Bases = _____ and _____

Stronger base = _____

- 4.) If you cool water the value of Kw changes. Write down which way Kw will change, and explain why. (3 marks)

_____.why?

- 5.) What is the $[\text{H}_3\text{O}^+]$ in a 0.250 M solution of NaOH? (Careful! NaOH is a base) (2 marks)