Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_ # \_\_\_\_\_

**Tonicity Interactive**

Go to the following website to answer the questions below. *This should take you no more than 20 minutes.* ***BE NEAT!***

<http://www.biologyjunction.com/tonicity%20animations.htm>

Answer the following regarding each animation on the website:

**Animation #1**:

What is the tonicity of this solution?

What happens to the cell?

What is this called?

**Animation #2**:

What is the tonicity of this solution?

What happens to the cell?

What is this called?

**Animation #3**:

What is the tonicity of this solution?

What happens to the cell?

What is this called?

**ANSWER THE FOLLOWING:**

1. What is the main difference between osmosis and diffusion?
2. Sketch a cell in hypertonic solution, below. Use **circles** to represent water and use **x** to represent solute. Draw an appropriate # of each, both in the cell and in the solution, to display hypertonicity. Use an arrow to indicate the movement of water.
3. Sketch a cell in hypotonic solution, below. Use **circles** to represent water and use **x** to represent solute. Draw an appropriate # of each, both in the cell and in the solution, to display hypotonicity. Use an arrow to indicate the movement of water.
4. Sketch a cell in isotonic solution, below. Use **circles** to represent water and use **x** to represent solute. Draw an appropriate # of each, both in the cell and in the solution, to display isotonicity. Use an arrow to indicate the movement of water.