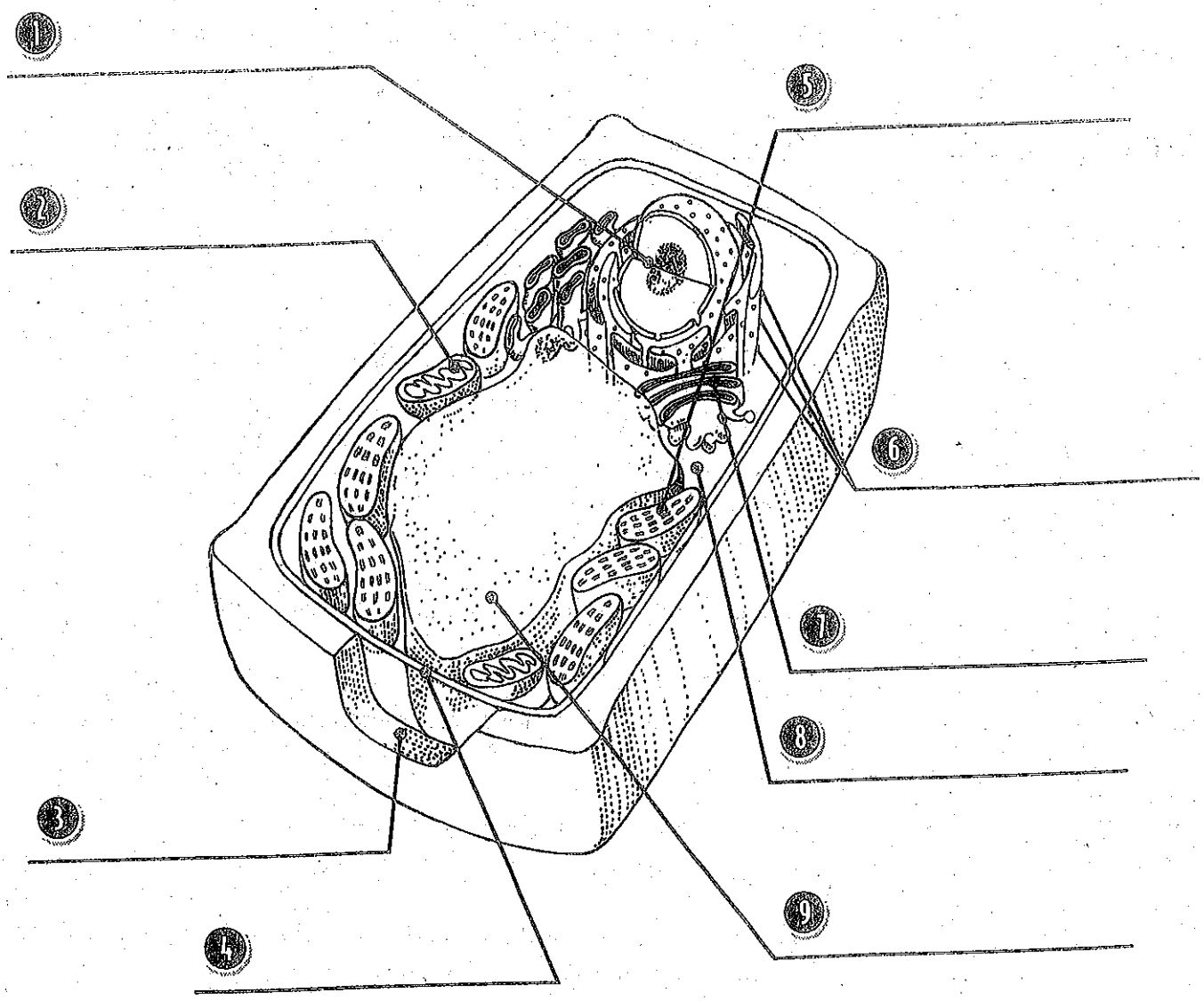
Name _____ Date _____

A Typical Plant Cell

Plant cells have basic structures in common, even though plant cells are as varied as the plants themselves. Each individual plant cell is partly self-sufficient, carrying on processes contained within the cell membrane. A plant cell differs from an animal cell because it contains chloroplasts and has a cell wall made of cellulose. Use the terms in the word box to label the diagram.

cytoplasm	chloroplast	vacuole
endoplasmic reticulum	ribosomes	nucleus
mitochondrion	cell wall	cell membrane



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Name _____ Date _____

Functions within a Plant Cell

Each of the structures, or organelles, within a plant cell serves a specific purpose. Match each term in the word box to its definition.

cytoplasm	chloroplast	vacuole
endoplasmic reticulum	ribosome	nucleus
mitochondrion	cell wall	organelle
cell membrane		

1. _____ This is the tough, nonliving outer layer of each plant cell. It gives the cell shape, strength, and support.

2. _____ This is a structure that stores water and helps keep the plant from wilting.

3. _____ This is a structure that contains chlorophyll, giving the plant its green color, and traps energy from sunlight.

4. _____ This is a structure that moves material throughout the cell.

5. _____ This is a substance that fills most of the cell outside the nucleus and contains the other organelles.

6. _____ This is any tiny structure in the cytoplasm of the cell that performs a special job.

7. _____ This is an organelle that puts together proteins for the cell.

8. _____ This is a structure where food and oxygen react to release energy.

9. _____ This acts as the control center for the cell.

10. _____ This is a layer that holds the parts of the cell together and controls movement of materials into and out of the cell.

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