The diagram below represents a plant cell with three structures labeled X, Y, and Z.

Plant cells and fungal cells have many of the same types of organelles. Structures X and Y are found in both plant cells and fungal cells. Structure Z is found in plant cells, but not in fungal cells.

a. Identify structure Y and describe its main function.

b. Identify structure Z and explain how plants use this structure to survive.

c. Explain how fungi can survive without structure Z.