Draw the correct structure for the following names:

cyclohexane

3-methylpentane

2-*t*-butyl-4-ethylheptane

$$\begin{array}{c|cccc} CH_3 & CH_3 \\ CH_3-C-CH_3 & CH_2 \\ CH_3-CH-CH_2-CH-CH_2-CH_2-CH_3 \end{array}$$

Provide a correct name for the following structures:

$$\begin{array}{c} CH_3 \\ \\ CH_3 \\ \\ CH_2 \\ \\ CH_3 \end{array} \quad \begin{array}{c} CH_3 \\ \\ \\ CH_3 \end{array} \quad \text{2,2-dimethylbutane}$$

$$\begin{array}{ccc} CH_3 - CH - CH_3 \\ & \\ CH_3 - CH_2 - CH - CH_3 \end{array} \quad \ \ \, 2,3\text{-dimethylpentane}$$