Carbonyl Compounds Homework

Draw the structures of the following compounds.

formic acid ethyl acetate

pentanoic acid isopropyl pentanoate

3-methylhexanoic acid benzyl benzoate

acetaldehyde diethyl ketone

benzaldehyde 2-hexanone

2-methylbutanal 4-methyl-2-pentanone

Provide all correct, reasonable names for the following. Question "g" has 3 possible names.

a) HO-C-CH-CH
$$_2$$
-C-OH CH $_3$

O
$$C = C$$

O $C = C$
 $C = C$

d)
$$CH_2$$
 CH_2 $C=O$

e)
$$\begin{array}{ccc} & & Br & O \\ & & & & \parallel \\ & CH_3-CH-CH_2-CH \end{array}$$

f)
$$CH_3-CH_2-CH-C-OH$$
 $CH_3-CH-CH_3$

h)
$$CH_3-CH_2-C-O-CH_2-CH_3$$

i)
$$\begin{array}{ccc} & O & OH \\ \parallel & \parallel & \parallel \\ CH_3-CH_2-C-CH_2-CH-CH_2-CH_3 \end{array}$$