Alkene Addition Reactions 1

Give the product for each reaction. Do not peek at the answers until you have a reasonable solution. Answers are shown below.

H ₂ 0 H ₂ SO ₄	
H ₂ 0 H ₂ SO ₄	
H ₂ O H ₂ SO ₄	
1. Hg(OAc) ₂ / H ₂ O 2. NaBH ₄	
1. Hg(OAc) ₂ / CH ₃ OH 2. NaBH ₄	
1. BH ₃ / THF 2. H ₂ O ₂ , OH ⁻	
NBS hv	
CCI ₄	
HBr ROOR	
Br ₂ CH ₂ Cl ₂	
Br ₂ EtOH	
Br ₂ H ₂ 0	

Alkene Addition Reactions 1

Give the product for each reaction. Do not peek at the answers until you have a reasonable solution. Answers are shown below.

H ₂ Pd/EtOH	
H ₂ Pd/EtOH	
H ₂ Pd/EtOH	
H ₂ P-2 cat.	
Na NH ₃ (liq)	

ANSWER KEY

Alkene Addition Reactions 1

H ₂ 0 H ₂ SO ₄	ОН
H ₂ 0 H ₂ SO ₄	OH
$\begin{array}{c} H_2O \\ \hline \\ H_2SO_4 \end{array}$	ОН
1. Hg(OAc) ₂ / H ₂ O 2. NaBH ₄	OH —
1. Hg(OAc) ₂ / CH ₃ OH 2. NaBH ₄	OCH ₃
1. BH ₃ / THF 2. H ₂ O ₂ , OH ⁻	OH
NBS hv	Br—
HBr CCI ₄	Br
HBr ROOR	Br
Br ₂ CH ₂ Cl ₂	Br + Br
Br ₂ EtOH	OEt Br
Br ₂ H ₂ 0	OH Br

ANSWER KEY

Alkene Addition Reactions 1

H ₂ Pd/Et0H	HIIII
H ₂ Pd/EtOH	
H ₂ Pd/EtOH	
H ₂ P-2 cat.	
Na NH ₃ (liq)	