Using concepts discussed in class *today*, solve "these" problems ...

Show how to synthesize

\[
\text{HO-} \quad \text{from} \quad \text{CH=CH-C=CH-C=C-C=CH-H}
\]

from 

\[
OAc
\]

\[
O\quad O\quad O
\]

\[
\text{from t-Bu-Br}
\]

\[
\text{KO-t-Bu/t- BuOH}
\]

\[
\text{provide the product, if any}
\]

\[
\text{[a] oxidation}
\]

\[
\text{[b] } \Delta
\]

Show how to synthesize

\[
\text{D-SPh}
\]

\[
\text{H}
\]

\[
\text{t-Bu-}
\]

\[
\text{Br}
\]

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