

## Exercise 10.4

### Stereoisomers

1.

(a) Draw all isomers for  $C_5H_{10}$  that are alkenes.

(b) For each isomer drawn in part (a), identify whether it is *cis*, *trans*, or neither.

2.

(a) Draw all isomers for  $C_5H_{10}$  that are not alkenes.

(b) For each isomer drawn in part (a), identify whether it is chiral or achiral and label any chirality centers with a \*.