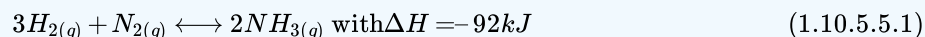


### 1.10.5.5: Practice Le Chatelier's Principle

#### Exercise 1.10.5.5.1



Determine whether each of the changes below would cause the equilibrium above to shift left, shift right, or have no shift.

- a. add  $N_2$
- b. increase temperature
- c. add catalyst
- d. remove  $H_2$
- e. increase volume

#### Answer

a. shift right; b. shift left; c. no shift; d. shift left; e. shift left

#### Exercise 1.10.5.5.1



Determine whether each of the changes below would cause the equilibrium above to shift left, shift right, or have no shift.

- a. add  $O_2$
- b. increase temperature
- c. add catalyst
- d. remove  $SO_3$
- e. increase volume

#### Answer

a. shift right; b. shift left ; c. no shift; d. shift right; e. shift left

#### Exercise 1.10.5.5.1



Determine whether each of the changes below would cause the equilibrium above to shift left, shift right, or have no shift.

- a. remove  $O_2$
- b. increase temperature
- c. add catalyst
- d. add  $NO$
- e. increase volume

#### Answer

a. shift left; b. shift right; c. no shift; d. shift left; e. no shift

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