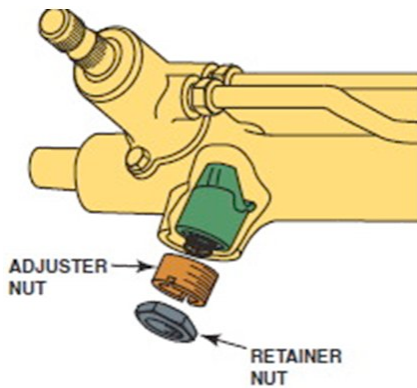


Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) The two rack and pinion steering gear adjustments include \_\_\_\_\_. 1) \_\_\_\_\_
- A) worm bearing preload and tolerance adjustment
  - B) pinion bearing preload and rack support
  - C) sector shaft and stub shaft preload
  - D) stub shaft endplay and sector shaft preload

- 2) What is the purpose of the adjuster nut in this drawing? 2) \_\_\_\_\_



- A) Used to change rack oil
  - B) Used to set pinion gear end-play
  - C) Used to set rack-and-pinion gear preload
  - D) None of these
- 3) Technician A says that vehicle manufacturers use break away steering column mounting brackets to protect the driver in an accident. Technician B says that vehicle manufacturers are required to use collapsible shafts in the steering column. Which Technician is correct? 3) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
- 4) What purpose does the flexible coupling attached to the steering column serve? 4) \_\_\_\_\_
- A) Allows for a change in angle between two shafts
  - B) Acts as a collapsible part of the steering shaft
  - C) Both A and B
  - D) Neither A nor B

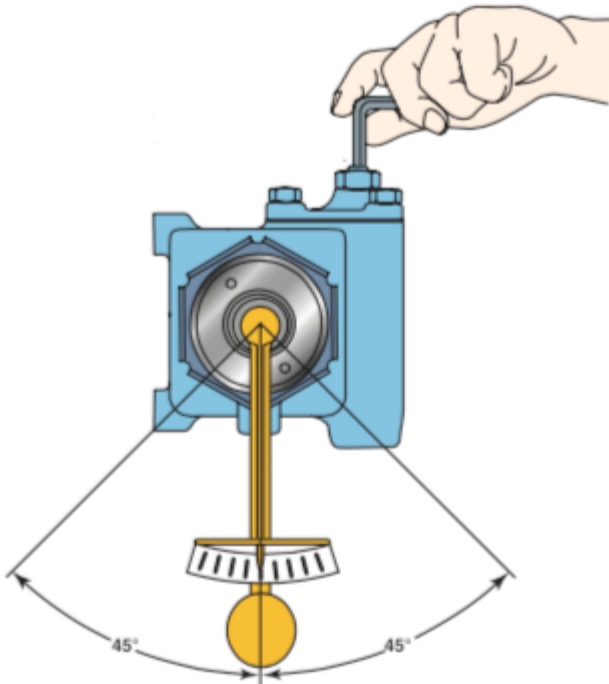
5) Technician A says that variable ratio steering is the same thing as variable assist steering. Technician B says that constant ratio shaft and sector gears are the same size, unlike systems with variable ratio steering. Which technician is correct? 5) \_\_\_\_\_

A) Technician A only  
 B) Technician B only  
 C) Both technicians A and B  
 D) Neither technician A nor B

6) On a variable ratio sector shaft, the center gear tooth is \_\_\_\_\_ than the side gear teeth. 6) \_\_\_\_\_

A) larger  
 B) smaller  
 C) thinner  
 D) softer

7) What adjustment is being made in this illustration? 7) \_\_\_\_\_



- A) Overcenter adjustment
- B) Wormshaft endplay
- C) Ball return ramps
- D) Wormshaft preload

8) What is the purpose and function of the air tube connecting the two end boots? 8) \_\_\_\_\_

A) To transfer air from one boot to the other when the wheels are turned  
 B) To move grease from one boot to the other to equalize the amount of grease in each boot  
 C) To prevent water from entering the boots  
 D) To keep any fluid from escaping

9) Technician A says that the steering system changes rotary motion into lateral motion. Technician B says that steering ratio is influenced by the length of the teeth on the sector gear. Which technician is correct? 9) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians A and B
- D) Neither technician A nor B

10) Which part in the steering column allows for changes in the angle between the upper and lower shafts? 10) \_\_\_\_\_

- A) Flexible coupling
- B) Column cover
- C) Universal joint
- D) Collapsible section

## Answer Key

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1) B

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2) C

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3) C

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4) A

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5) B

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6) A

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7) A

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8) A

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9) C

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10) C

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