

Automotive Technology 7<sup>th</sup> Edition  
Chapter 119: Wheel Alignment Principles  
Short Answer Quiz

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Explain the Ackerman Effect and its significance in wheel alignment.

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2. What is setback in wheel alignment, and how can it be measured?

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3. Describe the effects of road crown on vehicle handling and how it might affect a wheel alignment diagnosis.

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4. What is the difference between tramp and shimmy vibration, and can wheel alignment correct these issues?

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5. Define camber and explain how positive and negative camber can affect tire wear and vehicle handling.

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6. Discuss the importance of four-wheel alignment and the sequence of adjustments that should be made during the process.

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7. What is dog tracking in the context of wheel alignment, and what might cause this condition?

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8. How does incorrect rear toe affect vehicle handling differently than incorrect front toe?

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9. Describe the relationship between steering arm angles and proper toe-out on turns.

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10. Describe the relationship between steering arm angles and proper toe-out on turns.

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