

Practice Midterm Exam Correct Answers, Phys 121 Fall 2017

1. D

2. C

3. A

4. B

5. D

6. D

7. B

8. D

9. B

10. D

11. E

12. A

13. B

14. $v_x = v_{ox} + a_x t$, and $v_x = 0$ when car stops, so $a_x = -\frac{v_{ox}}{t} = -8 \text{ m/s}$

$v_x^2 = v_{ox}^2 + 2a_x(x - x_o)$, where $v_x = 0$ when car stops, so

$$(x - x_o) = -\frac{v_{ox}^2}{2a_x} = 36 \text{ m}$$