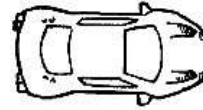


NAME \_\_\_\_\_ DATE \_\_\_\_\_

**Scenario***Angela is in a stopped car at a traffic light when the light turns green and she accelerates.***Using Representations****PART A:** Sketch and label vectors for velocity, acceleration, and net force on the car. (This is NOT a free-body diagram.)

Which way does Angela's body "feel" pushed? Explain in a short sentence why she feels this way.

She feels pushed \_\_\_\_\_ because \_\_\_\_\_

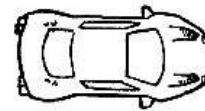
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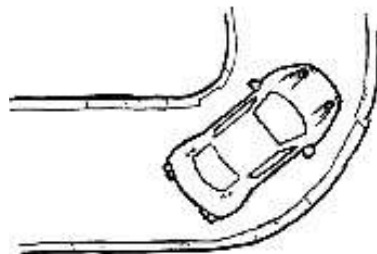
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**PART B:** As she approaches a stop sign, she slams on the brakes. Sketch and label vectors for velocity, acceleration, and net force on the car. (This is NOT a free-body diagram.)

Which way does Angela's body "feel" pushed? \_\_\_\_\_

Which way is the car accelerating? \_\_\_\_\_

Which direction is the net force on the car? \_\_\_\_\_

**PART C:** As Angela continues driving, she rounds a corner at a constant speed. Sketch and label vectors for velocity, acceleration, and net force on the car. (This is NOT a free-body diagram.)

Which way does Angela's body "feel" pushed? \_\_\_\_\_

Which way is the car accelerating? \_\_\_\_\_

Which direction is the net force on the car? \_\_\_\_\_