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Physics Homework **Name _____**

Date _____ Period _____

Show PAWS

1) Explain how a car traveling north can be accelerating south.

2) A cart rolling down a hill accelerates at $1.5 m/s^2$ for 5.34s. If the cart starts from rest how far has it traveled down the hill?

3) A car traveling 10.0m/s accelerates to 28.0m/s in 7.30s. Find the acceleration.

4) Find the distance the car in #3 traveled during this acceleration.

5) A car is traveling 22.0m/s when the driver sees a deer run in front of his car. If the deer is 150m from the car when the driver applies the brakes what is the minimum deceleration that will save the deer?