Problem statement A flagpole is 40 feet high and stands on level ground. A flag is attached to a 120 foot rope passing through a pulley at the top of the flagpole. The other end of the rope is tied to a car at ground level. If the car is driving directly away from the flagpole at 3 ft/sec, how fast is the flag rising when the top of the flag is 20 feet off the ground?