The equation $s=\sqrt{30fd}$ gives the speed, s, a car was travelling based on the length of the skid marks, d, and the friction co-efficient, f. Use this equation to answer the following questions.

1) If the friction coefficient is 0.8 and the length of the skid marks is 210 ft. how fast was the car traveling?

2) A car is traveling at a speed of 50 mph. If the skid marks measure a distance of 158 ft. what is the friction co-efficient?