Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Convert to decimal degrees and to radians $211°46'48''$.

2. The chain wheel of a bicycle has a radius of 3.5 inches. The rear gear has a radius of 1.75 inches and the back tire has a radius of 12 inches. If you pedal for 1 full revolution of the chain wheel, how far will you travel using this bicycle?