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. The height of the winning pole vault in the early years of the modern Olympic Games can be modeled as a function of time by the formula

$$H(t) = 0.05t + 3.3.$$

t is the number of years since 1900 and H is the winning height in meters.

(a) Calculate H(4) and explain in practical terms what your answer means. (Your explanation should be **very** short (a sentence) and **very** precise; otherwise credit will be subtracted.)

(b) By how much did the height of the winning pole vault increase from 1908 to 1912? (You must show all your work and provide **brief but precise** explanations; otherwise credit will be subtracted.)