Name_____ No calculators. Present neatly. Score_____. 1)

Suppose that f is continuous on [0, 4], f(0) = 1, and $2 \le f'(x) \le 5$ for all x in (0, 4). Show that $9 \le f(4) \le 21$.

2)

Show that the equation $3x + 2\cos x + 5 = 0$ has exactly one real root.

Your work: