

$$v(i+1) = \text{sqrt}(((500 + (\log(v(i))) * 3) * (34.3 + (0.020 * v(2)))) / 0.01)$$

$$ea(i+1) = \text{abs}((v(i+1) - v(i)) / v(i+1)) * 100;$$

$$\text{if } ea(i+1) \leq 1E-11$$

break

end

[ var 'v' ea ]

$$\text{if } v = 304.07$$

$$r_{e,Tb} = 9.8 \times 3.8 = 34.30$$

$$= \frac{0.3 \times (304.07)^2 - 0.2(304.07)}{50 + (\ln 304.07)^3}$$

$$= 34.25$$

$$\underline{\underline{= 34.30}}$$