

3.5 Applications

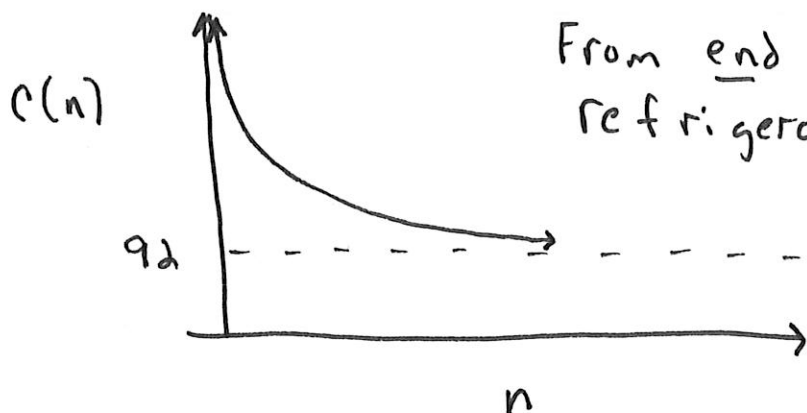
Day 6 ①

Annual cost of refrigerator as a function of years owned.

$$C(n) = \frac{550 + 92n}{n} = \frac{92n + 550}{n}$$

Asymptotes: VA $n = 0$

HIA $C = 92$



From end behavior, cost of refrigerator / year will never go below \$92.

$$C(t) = \frac{5t}{0.01t^2 + 3.3}$$

Concentration of a drug in the blood over time.

Asymptotes: VA None

HIA $y = 0$

Zero (x-intercept) $x = 0$

