

20. a) **Value of a car according to time elapsed since purchase**

Time (years)	Value (\$)
0	35,000
1	29,750
2	25,287.50
3	$\approx 21,494.38$
4	$\approx 18,270.22$
5	$\approx 15,529.69$

b) 1) $35\,000(0.85)^{15} \approx \$3,057.40$

2) $35\,000(0.85)^{20} \approx \$1,356.58$

21. a) 256 plants.

b) 1024 cm^2

c) $\approx 99.18\text{ m}^2$

22. a) The ball is at a height of $10\left(\frac{4}{5}\right) = 8\text{ m}$.

b) The ball is at a height of $10\left(\frac{4}{5}\right)^4 = 4.096\text{ m}$.

c) The ball is at a height of $10\left(\frac{4}{5}\right)^n\text{ m}$.