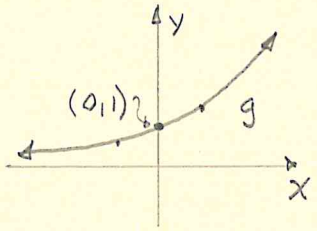
Pg. 189, #14 $g(x) = (3/2)^x$

Graph:



HA: $\boxed{y=0}$

Intercept: $(0,1)$ only

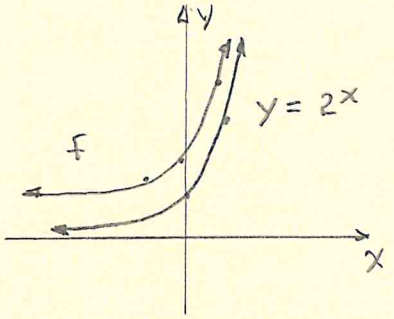
Function is increasing.

Pg. 189, #20 $y = 2^x$; $f(x) = 2^x + 1$

Transform from $y \to f$.

① VS 1 ↑

Matches with graph (b).



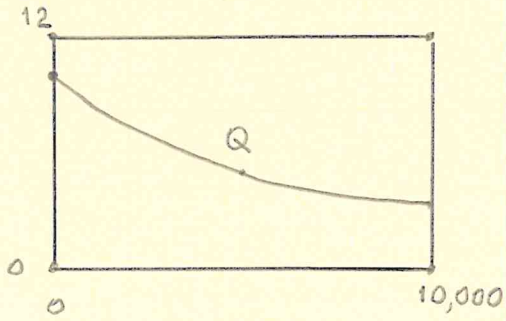
Pg. 191, #79 $Q(t) = 10\,(1/2)^{t/5700}$

a) $Q(0) = 10\,(1/2)^0 = \boxed{10 \text{ g.}}$

b) $Q(2000) = 10\,(1/2)^{2000/5700}$

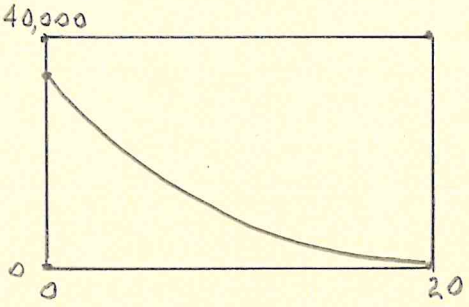
$= \boxed{7.841 \text{ g.}}$

c)



Pg. 191, #82 $V(t) = 31,340\,(4/5)^t$

a)



c) According to the model, the value will never be zero since $V(t) > 0$.