Math 3 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1-5 Practice 3 **No Calculator unless problem is denoted with \***

Solve the below exponential equations.

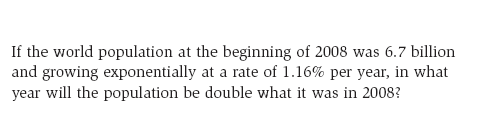
6\*. 7.

8\*. 9.

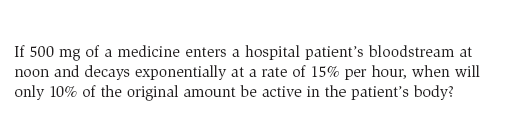
10. 11.

12. **CHALLENGE:**

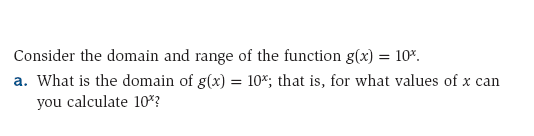
Solve the following word problems. Use the equation , where:

* is the initial amount
* *r* is the rate of growth (positive) or decay (negative) *as a decimal* (NOT a percentage)
* *t* is the unit time in the given problem

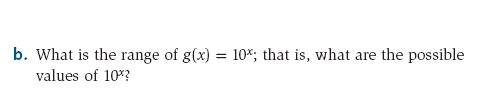
14\*.

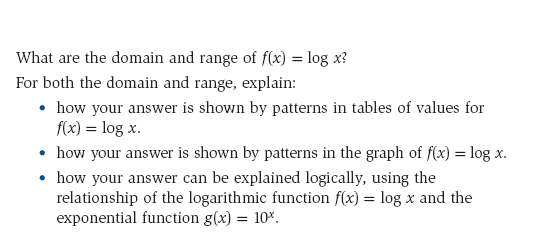


15\*.

**Domain and Range of Logarithmic Functions**

16\*.





17\*.