

\*Objective:

\*exponential equation:

**Got It?** 1. What is the solution of  $27^{3x} = 81$ ?

**Got It?** 2. a. What is the solution of  $5^{2x} = 130$ ?

**Got It?** 3. What is the solution of each exponential equation? Check your answer.

a.  $7^{4x} = 800$

b.  $5 \cdot 2^{3x} = 400$

**Got It?** 4. After how many years will you have harvested half of the trees if you harvest 5% instead of 7% yearly?

**Resource Management** Wood is a sustainable, renewable, natural resource when you manage forests properly. Your lumber company has 1,200,000 trees. You plan

\*logarithmic equation:

**Got It?** 5. What is the solution of  $\log(3 - 2x) = -1$ ?

**Got It?** 6. What is the solution of  $\log 6 - \log 3x = -2$ ?

**Inclass:** p. 473 #14, 22, 38, 42

**Homework:** p. 473 #7-45(odd)

**Interactmath:** #7, 8, 13, 15, 19, 21, 23, 25, 31, 39, 41, 43