# BOARD NOTES

13 FEBRUARY 2020

BORGER INDEPENDENT SCHOOL DISTRICT

1926

2A.5 (D) solve exponential equations of the form $y = ab^x$ where a is a nonzero real number and b is greater than zero and not equal to one and single logarithmic equations having real solutions;

2A.5 (E) determine the reasonableness of a solution to a logarithmic equation.

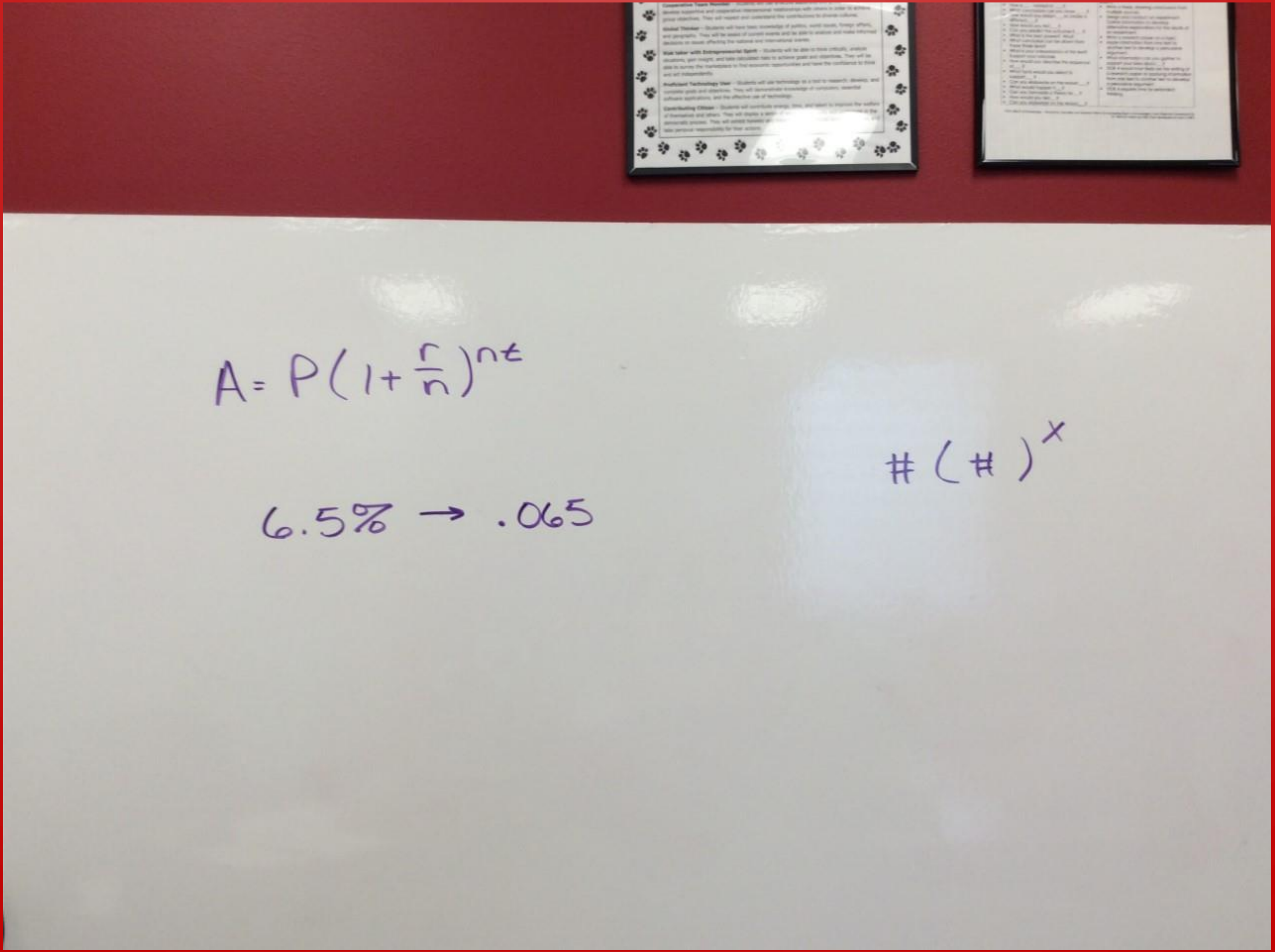
We will be able to model exponential equations (exponential growth and decay: compound interest and depreciation).

WHAT WE NEED:

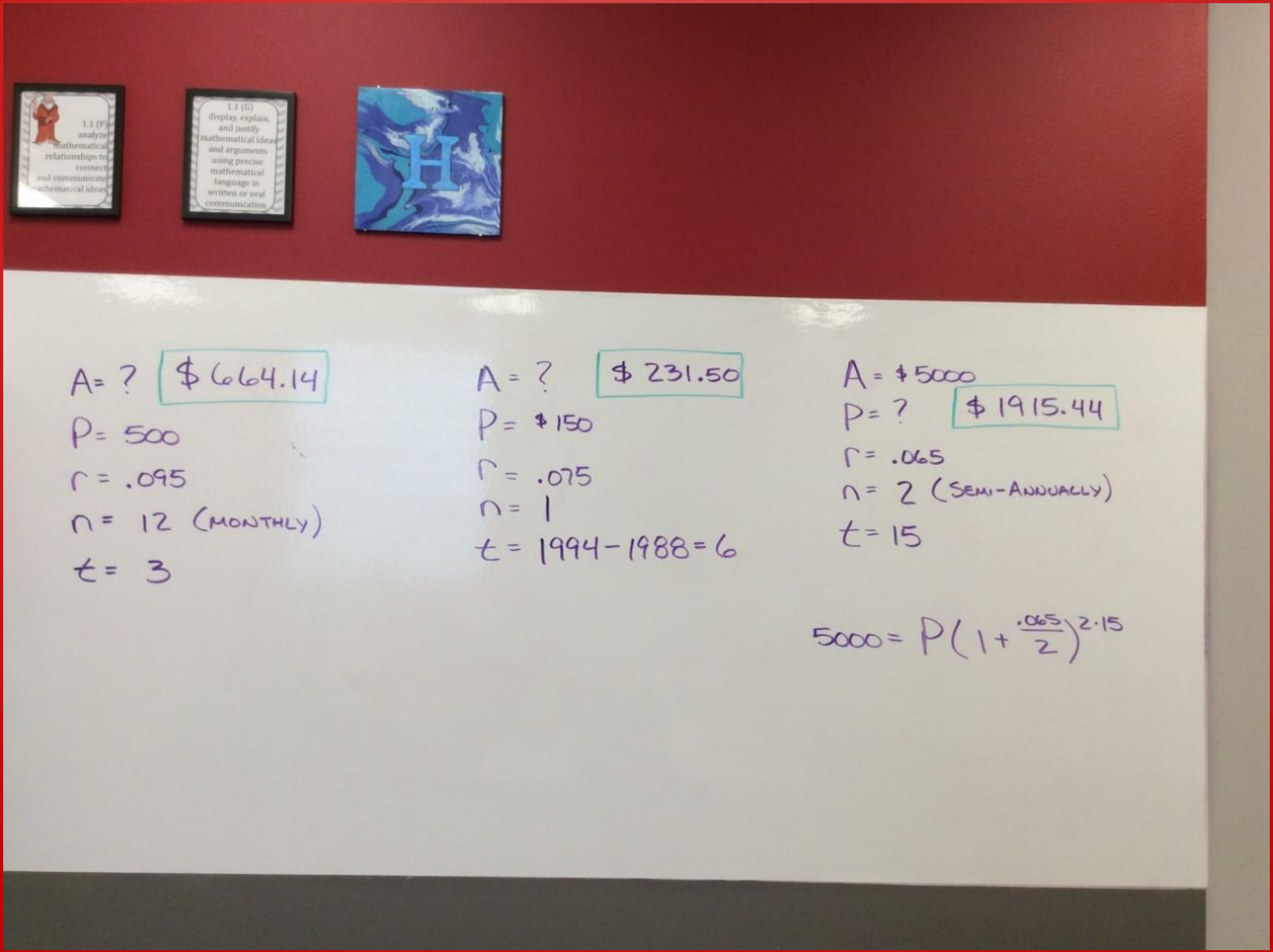
- TI-84
- Laws of Exponents
- Definition of Exponential
- Compound Interest Formula

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

- Equation



$A = P\left(1+\frac{r}{n}\right)^{nt}$
$6.5\% \rightarrow .065$
$\#(\#)^{x}$


A= ? $664.14
P= 500
r = .095
n = 12 (MONTHLY)
t = 3
A = ? $ 231.50
P = $ 150
r = .075
n = 1
t = 1994 − 1988 = 6
A = $ 5000
P = ? $ 1915.44
r = .065
n = 2 (SEMI-ANNUALLY)
t = 15
5000 = P(1 + .065/2)^2·15
H

$A$ ? $\boxed{\$6400}$

$P = 12{,}500$

$r = .2$

$n = 1$

$t = 3$

$$A = P\left(1 - \frac{r}{n}\right)^{nt}$$

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