Liceo Aguadillano

Find the amount of interests you will **21 obsr0** loan of \$2,000.00 at 11% for 6 years. (BONUS 3 rayes and monstrate the procedure and choose the correct auluslandary and choose the correct auluslandary.

Quiz No.: 4

Mr. Reyes
Chapter 4 section 1



Name

Clave Daniel Reges

Date

3/5/204

1. Find x. (5 points)

$$2^{(5x-6)} = 2^{8x}$$

$$5x-6 = 2x$$
 $5x-6 = 8x$
 $-6 = 3x-5x$
 $-6 = 3x$
 $x = -6/3 = -2$
 $x = -2/3$

2. Find x. (5 points)

$$5^{x} = 25^{(x-1)}$$
 $5^{x} = (5^{2})^{x-1}$
 $5^{x} = 5^{2x-2}$
 $x = 2x-2$

3. Find x. (5 points)

$$9^{x^{2}} = 3^{(3x+2)}$$

$$(3^{2})^{x^{2}} = 3^{3x+2}$$

$$3^{2x^{2}} = 3^{3x+2}$$

$$2x^{2} = 3x+2$$

$$0 = 2x^{2} - 3x - 2$$

- 4. Find the amount of interests you will pay for a loan of \$2,000.00 at 11% for 6 years. (BONUS 3 points if demonstrate the procedure and choose the correct answer)
 - hapter 4 section 1 a. \$2112.55
 - b. \$112.55
 - c. \$1857.97
 - d. \$3857.97
 - e. \$253.65

$$2^{(5x-6)} = 2^{-8x}$$

$$A = P(1 + \frac{1}{2})^{n+1}$$
 $A = 2,000 (1 + \frac{11}{12})^{6(2)}$
 $A = 2,000 (1.928934)$

$$A = 2,000 \left(1 + \frac{11}{12}\right)^{6(2)}$$