

## Homework #2

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1.  $2^{1+2x} = 32$

$$\cancel{2}^{1+2x} = \cancel{2}^5$$

$$1+2x = 5$$

$$\underline{-1 \quad -1}$$

$$\frac{2x = 4}{2 \quad 2}$$

$$x = 2$$

2.  $f(x) = 800(1.5)^{\frac{x}{60}}$

$$f(x) = 800(1.5)^{\frac{130}{60}}$$

$$.22272 \times 800 = 178.1797$$

178 = rounded

3. B.  $4^x$

4.  $e^{4x-1} = (e^3)^{-x}$

$$x = \frac{1}{7}$$

5.  $A = 7,000 \left(1 + \frac{.055}{2}\right)^{12} = 1.0275^{12}$

$$1.3847(7,000)$$

$$9,693.4864$$

$$6. Y = 230(2.7)^{-0.04(t)}$$

$\rightarrow 12$

$$Y = 230(2.7)^{1.08}$$

$$2.923 \times 230 = 672.35$$

$$7. f(x) = 2^x + 8 \quad f(3)?$$

$$f(3) = 2^3 + 8 = 8 + 8 = 16$$

$$16, \quad \begin{array}{r|l} x & y \\ 3 & 16 \end{array}$$