

****MATHXL assignment due 1/29/18**

AA2 Warm Up Friday
wk 3 sem 2

Write in exponential/logarithmic form.

1. $\log_7 49 = 2$ 2. $64^{\frac{2}{3}} = 16$ 3. $\log_c w = y$ 4. $d = w^2$

5. Nineteen years ago, Mary Lou purchased a gold ring which has appreciated 8.32% each year. If she bought it for \$2100, how much is it worth now?

$$2100(1.0832)^{19}$$
$$= \$ 9587.02$$

7. Simplify. Write in a+bi form

$$\frac{8}{3-4i}$$

$$\left(\frac{8}{3-4i}\right) \cdot \left(\frac{3+4i}{3+4i}\right)$$

$$\frac{24+32i}{9-16i^2} = \frac{24+32i}{25}$$

$$\frac{24}{25} + \frac{32}{25}i$$

6. Eight years ago, Michael invested \$7,000 in an account that paid 2.75% interest compounded weekly. Does he have enough money in this account to buy a car for \$8750?

$$A(8) = 7000 \left(1 + \frac{0.0275}{52}\right)^{52 \cdot 8}$$

$$= 7000 \left(1 + \frac{0.0275}{52}\right)^{416}$$

$$= \$ 8722.03$$

No, Michael does not have enough money yet....how much longer will he have to wait?? Stay tuned...we'll be able to figure that out soon.