Equivalent Exponents Forms

Express each of the following functions with an exponent of t. Round values to the nearest thousandth.

1.
$$A = 12,000(1.025)^{121}$$

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2.
$$A = 25,000(1.125)^{13.21}(3.2) + A = 25,000(4.734) + A = 25,000(4.734)$$

3.
$$A = 37,000(.986)^{10}$$

 $A = 37,000(.986)^{1}$
 $A = 37,000(.968)^{1}$

4.
$$A = 17,000(.889)^{9.41}$$

 $A = [7,000(.889)^{9.41}]$
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5.
$$A = 9,175(1.885)^{\frac{1}{2}}$$

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6.
$$A = 9,325(1.762)^{\frac{2}{5}}$$

$$A = 9325(1.762)^{\frac{2}{5}}$$

$$A = 9325(1.254) +$$

7.
$$A = 11,185(.764)^{\frac{11}{12}}$$

$$A = ||_{1}|85(.764)^{\frac{11}{12}}$$

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8.
$$A = 125,000(.785)^{\frac{1}{4}}$$

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9. Iridium-192 is an isotope of iridium and has a half-life of 73.83 days. If a laboratory experiment begins with 100 grams of Iridium-192, the number of grams, A, of Iridium-192

present after t days would be $A = 100 \left(\frac{1}{2} \right)^{\frac{\lambda_t}{73.83}}$. Which equation approximates the amount of

1)
$$A = 100 \left(\frac{73.83}{2}\right)^t$$

Iridium-192 present after
$$t$$
 days?

$$A = 100 \left(\frac{73.83}{2} \right)^{t}$$

$$A = |W| \left(\frac{1}{3} \frac{73.83}{2} \right)^{t}$$

$$A = |W| \left(\frac{1}{3} \frac{73.83}{2} \right)^{t}$$

$$A = 100 \left(\frac{1}{147.66} \right)^{t}$$

4)
$$A = 100(0.116381)^t$$

