| 12.5 Exponential Application Ho PAP Algebra 2 | omework | Name: | | | |
|--|---|-------|-----------------|--|--|
| | eposit of \$25,000 is made in a trust fund that pays ance in this account on the child's 26th birthday if the | | | | |
| a) quarterly | b) monthly | | c) continuously | | |
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| 2. What is the initial value of a Samsung Galaxy phone if it depreciates at a value of 2.5% per week if after 57 weeks it was worth \$124? | | | | | |
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3. How much money would you need to deposit today at 9% annual interest compounded monthly to have \$12,000 in the account after 6 years?

| For #'s 4-5, find the ba | alance in each account f | or the different compour | nding periods. | | |
|---|--------------------------|---|----------------|--|--|
| 4. \$15,000 principal earning 3.5% interest after 4 years | | | | | |
| a) Annually | b) Semi-annually | c) Quarterly | d) Monthly | | |
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| | with 100g of radioactive | time it takes for half the e material, find the num | | | |
| a)10 days | b) 1 day | c) 20 days | d) 12 hours | | |
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| | | | | | |
| | | e 5 years from now. How al interest compounded o | | | |
| she put into an accoun | triat carris 4.1 /0 arma | ar interest compounded (| continuousiy : | | |
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| | | cipal at an annual interes | st rate of 8% | | |
| compounded continuou | i vicr | | | | |
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