| Accelerated | Coordinate | Algebra |
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| ALLERE ALEU | Coordinate | WIECO! O |

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Compound Interest Worksheet

1. \$15,000 is deposited in an account that pays 3.5 % annual interest, compounded quarterly. Find the value

of the account after 10 years.

y = 15,000 (1+2035)10.4

7 121255,63

2. You borrowed \$30,200 for 15 years at an interest rate of 13.6% and it's compounded semi annually. How much in total will you have paid after 15 years?

y = 30,200 (1+ 136) 2018

\$\$ 217, 34 2, 43

3. You deposit \$2000 in an account that earns 5% annual interest. Find the balance in the account at the end of 2 years if the account is compounded monthly.

7 2000 (1 + 10) 12 · 2

4. You deposit \$30,000 in an account that earns 5 % interest, compounded annually. Find the balance in the account at the end of 5 years, at the end of 10 years, and at the end of 20 years.

12 30000 (1 + 195) 5 + 38289, 45 48366 84

5. Your investment of \$18,100 at 13.6% compounded quarterly for 7 years and 6 months will be worth how much? $\frac{13.6}{4} = \frac{13.6}{4} = \frac{13.6}{4}$

\$49356.36

Advanced Algebra Simplifying Expressions Review



Simplify the Expressions

1.
$$e^{-2} \cdot e^4$$

6.
$$\left(\frac{2}{3}^{l}e^{3}\right)^{-2}$$

400

2.
$$e^6 \cdot e^{-2} \cdot e^4$$

7.
$$\frac{e^4 \cdot e^{-2}}{e^3}$$

3.
$$(4e^{-3})^2$$

8.
$$\sqrt{16e^6}$$

403

4.
$$5e^{-2}$$

9.
$$\sqrt{e^{-4} \cdot e^6}$$

5.
$$\frac{e^6}{e^{-2}}$$

10.
$$(3e^{-2})^3$$