1. Solve the equation.

log x2 = log (-3x-2)

2. Solve the equation.

92x+6 = 93x-9

3. In 1974, Johnny Miller won 8 tournaments on the PGA tour and accumulated $376,836 in official season earnings. In 1999, Tiger Woods accumulated $6,711,256 with a similar record. Find the annual interest rate needed for Miller's winnings to be equivalent in value to Woods' winnings.

4. If $1200 is deposited in a savings account that pays interest at a rate of 7.25% per year compounded continuously, find the balance after 3 years.

5. Solve the equation.

$e^{x^{2}}$ = $e^{14x-48}$

6. Change to exponential form.

log8 $\frac{1}{512}$ = -3

7. Solve the equation.

log7x = log7(8-x)

8. An investment of $1,143 increased to $6,642 in 16 years. If the interest was compounded continuously, find the interest rate.

9. Bill invested $6,500 in a five year CD that pays eight percent compounded annually. What is the compound interest and amount that will be in a bank after five years?

10. Bill invested $1,900 in a four year CD that pays eight percent compounded monthly. What is the compound interest and amount that will be in the bank after four years?