Solve. **Show all work**. Round answers to the nearest hundredth.

33. $5500 = Pe^{(.065)(15)}$

2074.56

34. $6500 = 3200e^{(.046)t}$

15.41

35. $A = 9000e^{(.028)(6)}$

10646.43

36. $8800 = 5900e^{r(11)}$

.0363 = 3.63%

33. $8560 = 2800e^{(.055)t}$

20.32

34. $950 = Pe^{(.047)(18)}$

407.67

35. $4800 = 1900e^{r(7)}$

.1324 = 13.24%

36. $A = 3950e^{(.061)(5)}$

5358.67

37. How much money do you need to invest at 4.9% compounded continuously so that you will have $8500 in 10 years?

$5207.32

38. How much money do you need to invest at 3.8% compounded continuously so that you will have $12,500 in 15 years?

$7069.07