PROBLEM SET 8-2
(Properties of Exponential Functions)

Graph each function. Label the asymptote of each graph.

1. $y = -5^x$

2. $y = -3(2)^x$

3. $y = -\left(\frac{1}{3}\right)^x$

4. $y = -24\left(\frac{1}{2}\right)^x$

5. $y = -2(5)^{x+3}$

6. $y = 9\left(\frac{1}{3}\right)^{x+7} - 3$

Find the amount in a continuously compounded account for the given conditions.

	Principal	**Annual Interest Rate**	**Time**
7.	$2000	5.1%	3 years
8.	$400	7.6%	1.5 years
9.	$950	6.5%	10 years

10. A student wants to save $8000 for college in five years. How much should be put into an account that earns 5.2% annual interest compounded continuously.