9. [10 points] Hugo LeBlanc is baking bread. Suppose that $t$ minutes after he put his bread in the oven, the temperature of the bread in degrees Fahrenheit is

$$
y=B(t)=350-290 e^{-\frac{t}{7}} .
$$

a. [2 points] Find the temperature of the bread when it is first put into the oven. Include units.

The temperature of the bread when it is first put into the oven is $\qquad$ .
b. [2 points] Find $\lim _{t \rightarrow \infty} B(t)$.

$$
\lim _{t \rightarrow \infty} B(t)=
$$

$\qquad$
c. [6 points] $B(t)$ is a transformation of the function $e^{t}$. Fill in the following blanks with the transformations needed to transform the graph of $e^{t}$ into the graph of $B(t)$. On each line use one of the phrases given below for the first blank and a number for the second blank, if applicable (for reflections, do not use the second blank). Be sure to list the transformations in the proper order. Leave any unused lines blank.

| SHIFT IT | SHIFT IT | SHIFT IT | SHIFT IT | REFLECT IT |
| :---: | :---: | :---: | :---: | :---: |
| HORIZONTALLY | HORIZONTALLY | VERTICALLY | VERTICALLY | OVER THE |
| TO THE RIGHT | TO THE LEFT | UPWARDS | DOWNWARDS | $y$-AXIS |
|  |  |  |  |  |
| COMPRESS IT | STRETCH IT | COMPRESS IT | STRETCH IT | REFLECT IT |
| HORIZONTALLY | HORIZONTALLY | VERTICALLY | VERTICALLY | OVER THE |
|  |  |  |  | $t$-AXIS |

To get the graph of $B(t)$ starting with the graph of $e^{t}$,
first, we $\qquad$ by $\qquad$ ,
and then we $\qquad$ by $\qquad$ ,
and then we $\qquad$ by $\qquad$ ,
and then we $\qquad$ by $\qquad$ .
and then we $\qquad$ by $\qquad$ .

