\[ y(t) = \frac{8}{1 + b e^{-at}} \]

\[ \ln b \phi - at = \ln \left(\frac{1}{y} - 1\right) \]

\[ a t - \ln b = -\ln \left(\frac{1}{y} - 1\right) \]

<p>| | | | |</p>
<table>
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| 5  | 10  | 0.21           | -1.3249          | \[ \beta = \frac{a}{b} \]

\[ a = 0.5843 \quad b = 1.6106 \]

\[ y(t) = \frac{1}{1 + 1.6106 t - 0.5843 t} \]
<table>
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<tr>
<th>$y$</th>
<th>$-\ln \left( \frac{5}{y} - 1 \right)$</th>
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</thead>
<tbody>
<tr>
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<td>7.75</td>
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<tr>
<td>1.03</td>
<td>-1.3492</td>
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<tr>
<td>1.03</td>
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<tr>
<td>1.0483</td>
<td>-1.327</td>
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</table>

$$y = \frac{5}{1 + 5.3849 e^{-0.0842 t}}$$

$0, 15, 10, 15, 20, 25, 30$
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<th></th>
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<th>( y )</th>
<th>(- \ln \left( \frac{1}{y} - 1 \right))</th>
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<td>6</td>
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</tbody>
</table>

\( y(t) \)  
\[ a = 1.2934 \]  
\[ b = 277.7133 \]  
\[ y(t) = \frac{1}{1 + 277.7133 e^{-1.2934 t}} \]