$$
\begin{aligned}
& \int_{a}^{\int_{\text {integrant }}^{b} \frac{f(x)}{} \frac{d x}{}=A=\lim _{n \rightarrow \infty} \sum_{i=1}^{n} f\left(x_{i}\right) \frac{\Delta x}{p}} \\
& f(x)=30\left(1-e^{-\frac{x}{3}}\right)
\end{aligned}
$$

$$
\begin{aligned}
& =\lim _{n \rightarrow \infty} \sum_{i=1}^{n} 30\left(1-e^{-\frac{n}{3}}\right) \frac{15}{n} \\
& \begin{array}{c|l}
n & \\
\hline 10 & 361.531 \\
20 & 360.839 \\
50 & 360.646 \\
100 & 360.616
\end{array}
\end{aligned}
$$

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(12) area above $x$-axis t below $y=4 x-x^{2}$

total area ex. 4 abuse

$$
\int_{2}^{e x x^{4}}\left(x^{2}-2 x\right) d x-\int_{0}^{3}\left(x^{2}-2 x\right) d x
$$

p. 380

1-27 odd

