Estimating the Area Between Two Curves - Limits

<table>
<thead>
<tr>
<th>Number of Rectangles</th>
<th>Estimated Area: Riemann Sum</th>
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<tr>
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</tbody>
</table>

The Limit of the Estimated Area between the two curves, using Riemann Sums, is $20 \frac{5}{6}$

Using the Definite Integral in Calculus,

$$\text{Area} = \int_{-3}^{2} \left(-x^2 + 7\right) - (x + 1) \, dx = 20 \frac{5}{6}$$