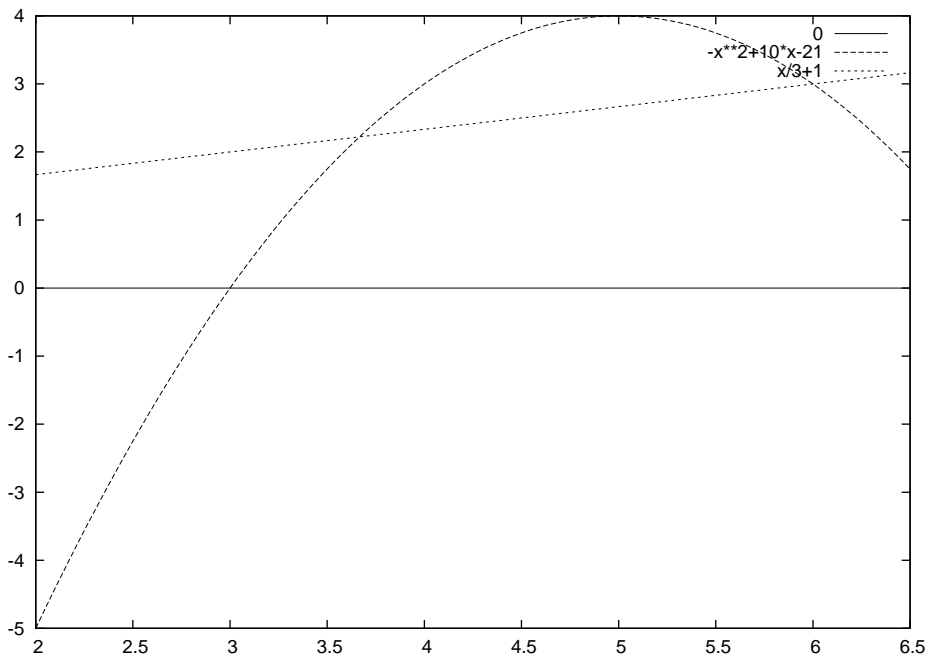


$$\begin{aligned}
& \int_{11/3}^6 \left(\frac{1}{3}x + 1 - (-x^2 + 10x - 21) \right) dx \\
&= \int_{11/3}^6 \left(x^2 - \frac{29}{3}x + 22 \right) dx \\
&= \left. \frac{1}{3}x^3 - \frac{29}{6}x^2 + 22x \right|_{11/3}^6 \\
&= (72 - 174 + 132) - \left(\frac{1331}{81} - \frac{3509}{54} + \frac{242}{3} \right) \\
&= 30 - \frac{1}{162}(2662 - 10527 + 13068) = 30 - \frac{5203}{162} = -\frac{343}{162} \\
&\doteq -2,117
\end{aligned}$$

ok, ich dachte fälschlicherweise, die Gerade liege höher; aber die Fläche ist natürlich +2,117...

This is a TeXmacs interface for GNUplot.

GNUplot] `plot [x=2:6.5]0,-x**2+10*x-21,x/3+1`



GNUplot]