

$$\begin{aligned}
27. \quad & \lim_{x \rightarrow \infty} \frac{x\sqrt{x+1}(1-\sqrt{2x+3})}{7-6x+4x^2} \\
&= \lim_{x \rightarrow \infty} \frac{x^2 \left(\sqrt{1+\frac{1}{x}} \right) \left(\frac{1}{\sqrt{x}} - \sqrt{2+\frac{3}{x}} \right)}{x^2 \left(\frac{7}{x^2} - \frac{6}{x} + 4 \right)} \\
&= \frac{1(-\sqrt{2})}{4} = -\frac{1}{4}\sqrt{2}
\end{aligned}$$