

2.68
u1

$$\begin{aligned}\lim_{x \rightarrow 4} \frac{-2x^3 + 17x^2 - 36x}{x^2 - 7x + 12} &= \lim_{x \rightarrow 4} \frac{-x(2x^2 + 17x + 36)}{x(x^2 - 7x + 12)} = \lim_{x \rightarrow 4} \frac{-x(2x+9)(x-4)}{(x-3)(x-4)} \\ &= \lim_{x \rightarrow 4} \frac{-(2x+9)}{x-3} = \frac{-(-1)}{1} = 1\end{aligned}$$