MA 425-002 Homework

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1. Assume (1) $x_n > 0$ for all n and (2) $\lim(x_n) = \infty$. Show that $\lim(\frac{1}{x_n}) = 0$.

2. Assume (1) $\lim(x_n) = \infty$ and (2) the sequence (y_n) is bounded. Show that $\lim(x_n + y_n) = \infty$.