

27. To be proved:  $\lim_{x \rightarrow 1^+} \frac{1}{x-1} = \infty$ . Proof: Let  $B > 0$  be given. We have  $\frac{1}{x-1} > B$  if  $0 < x - 1 < 1/B$ , that is, if  $1 < x < 1 + \delta$ , where  $\delta = 1/B$ . This completes the proof.