E3. Problem S. Upsampling

Consider two continuous-time signals $x_i(\cdot)$ and $x_2(\cdot)$ and $y_2(\cdot)$ and $y_3(\cdot)$ and $y_4(\cdot)$ and $y_5(\cdot)$ and $y_5(\cdot)$ at $y_5(\cdot)$ and $y_5(\cdot)$ are processed by a digital signal processor, and both signals need to operate at the same sampling rate.

a) By what Eactors do the signals need to be upsampled by?

b) Shetch the Courier transforms of x;(), the sampled signals, and the upsampled signals.

Signal x_E-I is at Signals x, E-I and x_2 E-I at need to be upsampled by factors of 5 and 3 respectively.

6)

