

**Problem 10.3** Repeat Problem 10.2 for TV channels, each requiring a bandwidth of 6 MHz.

**Solution:** Number of telephone channels =  $\frac{2 \times 4 \times 10^8}{6 \times 10^6} = 133.3 \simeq 133$  channels.  
We need to round down because we cannot have a partial channel.

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