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**EXERCISE 7.10:** Using the results of Exercise 7.9, show that the impulse response of the ideal HPF is

$$h_{\text{HP}}[n] = \delta[n] - \frac{\sin(\hat{\omega}_{\text{co}}n)}{\pi n}$$

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McClellan, Schafer, and Yoder, *DSP First, 2e*, ISBN 0-13-065562-7.  
Prentice Hall, Upper Saddle River, NJ 07458. ©2016 Pearson Education, Inc.

