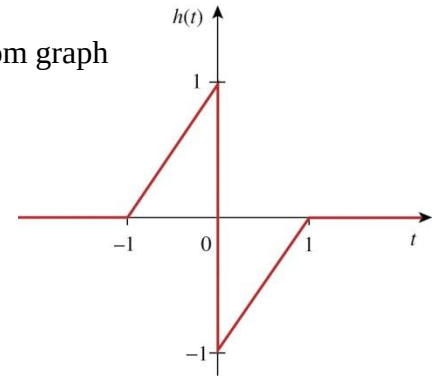
P1 **Concept:** Forward Fourier Transform using tables from graph
Find: H(ω) given h(t) shown to the right
Hint: • Consider using the derivative property
• Answer will have a sinc and a constant



P2 **Concept:** Forward Fourier Transform using tables from equation
Find: X(ω) given $x(t) = e^{-4t}\cos(10t)\,u(t)$
Hints: Sometimes it really is just that easy. Don't make it harder.

P3 **Concept:** Inverse Fourier Transform using tables
Find: y(t) given $Y(\omega) = \frac{6}{(j\omega-1)(j\omega+2)}$
Hints: • Use partial fraction decomposition techniques.
• Be careful of signs. Both $u(-t)$ and $u(t)$ parts are present.