





Part I. Pec 1 Exercises.
1. Not clear on what this mount.
2. verity by direct diff.
$u(x) = \int_{0}^{1} G \phi d\xi = (x-1) \int_{0}^{x} \xi \phi d\xi + x \int_{x}^{1} (\xi-1) \phi(\xi) d\xi$
logs satisfy: $u''(x) = \phi(x) u(0) = u(1) = 0$
w'(x)= 8x((x-1) {x \ p(\x) d \ y) + 4x (x \ (\x -1) \ p(\x) d \ \x)
~ 5 \$ 9(E) d & +a(x+) \$ (x) + 5 (E-1) \$ (E) dE-x(m) \$
$= \int_{x}^{x} \xi \phi(\xi) d\xi + \int_{x}^{x} (\xi - 1) \phi(\xi) d\xi$ $= x \phi(x) - (x - 1) \phi(x)$
$= \phi(x)$