EX7.7
Let X be a 7.V P. D. F = $f(x) = (4x - 4x^3)$ for $0 \le x \le 1$ $f(x) \ge 0$, 0 $f(x) \ge 0$, 0 $= (2\times +3) = ?$ first, let's compute E(X) $E(X) = \int (x fx) dn$ E(X)= ((2x) (4>2-4>23) d-(since fundion has only volumes in (0,17, else E(x)= 1/42-424) d2 $= 4 \int (x - x) dx$ = 4 \ 2c³ > c⁵ | $= \left\{ \left(\frac{1}{3} - \frac{1}{5} \right) - \left(0 - 0 \right) \right\}$ = 4 (5-3) = 8/15 Scanned by CamScanner



