

(1) $5^x \ln 5$

(2) $\frac{1}{x \ln 3}$

(3) $\sqrt[3]{6x} \frac{1}{x \ln 8} + \frac{1}{3}(6x)^{-2/3}(6) \log_8 x$

(4) elasticity

(a) $E(p) = -\frac{pD'(p)}{D(p)} = -\frac{p(17+7p-6p^2)}{17p+3.5p^2-2p^3} = \frac{-17p-7p^2+6p^3}{17p+3.5p^2-2p^3}$

(b) inelastic since $E(1.5) = -0.789$