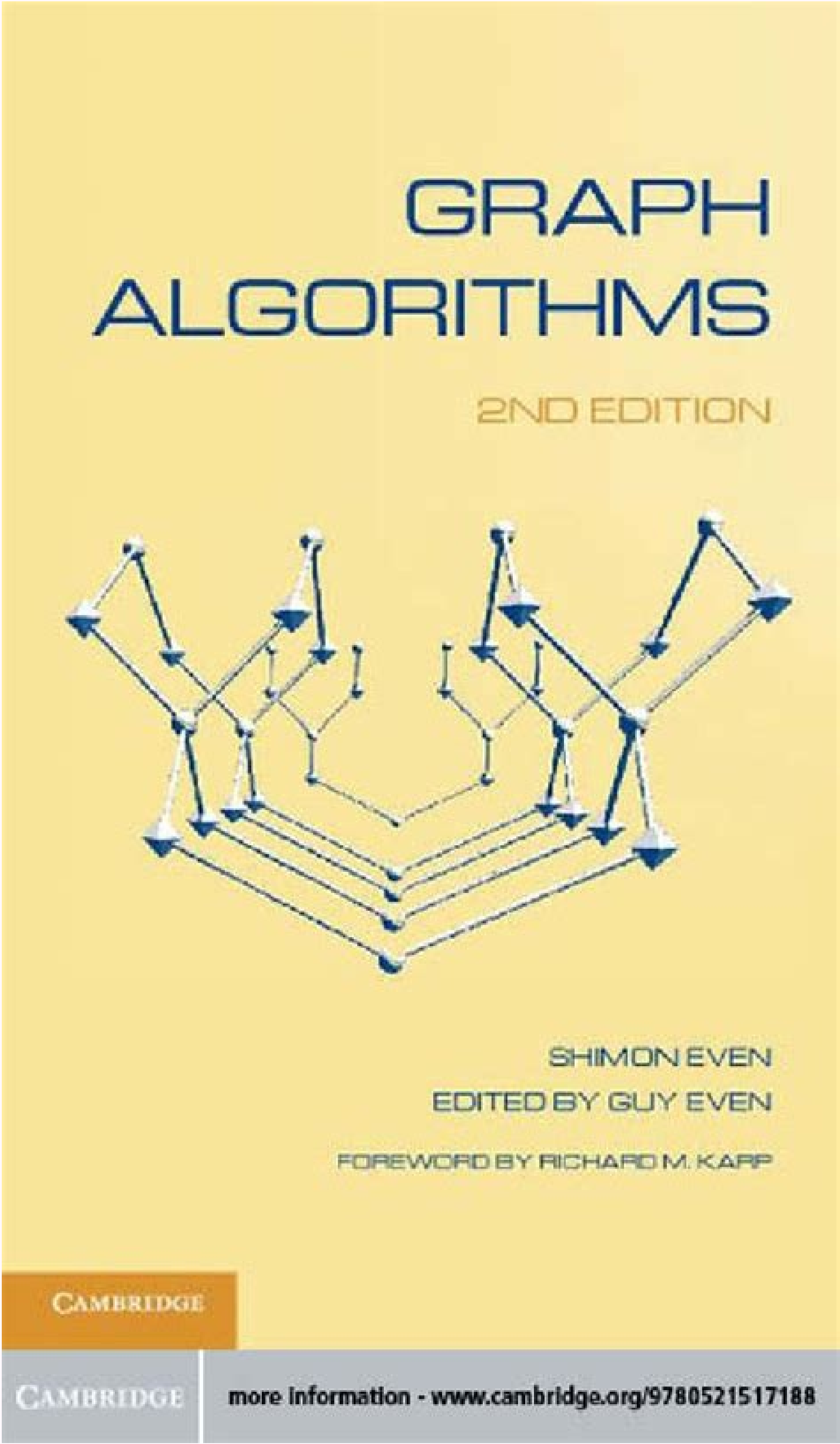
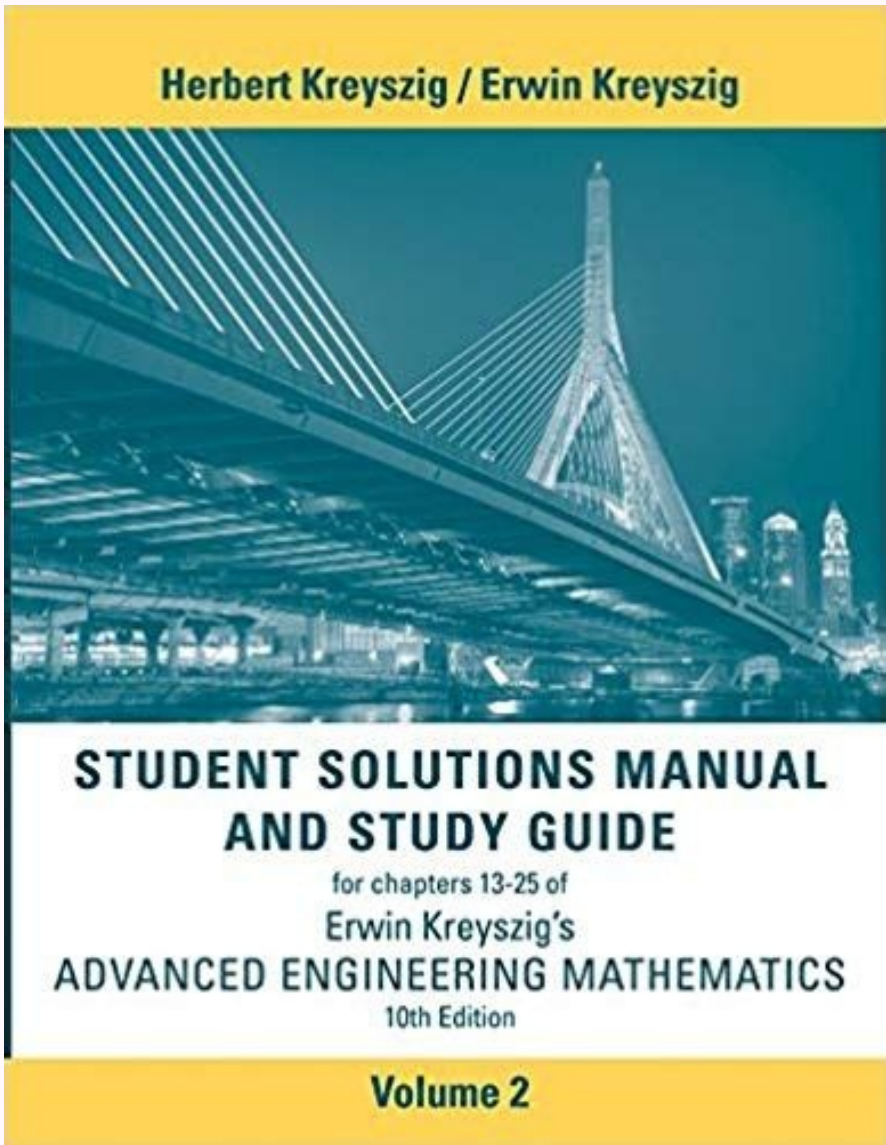


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Questions Related to the Derivation - Power Rule, Product/Quotient Rule, Chain Rule, Sketching, Implicit Differentiation, Using the Definition

① Find the derivative using the definition:

① $f(x) = 3x + 4$ ② $f(x) = \pi^{100}$ ③ $f(x) = x^{10} + 5x^{9/5}$

④ $g(x) = \frac{1}{x^2}$

⑤ Find the derivative using the power rule, product rule, quotient rule, chain rule (No trig in this section)

① $f(x) = 8$ ② $f(x) = \pi^{100}$ ③ $f(x) = x^{10} + 5x^{9/5}$

④ $f(x) = \frac{7}{x^{1/2}}$ ⑤ $g(t) = \frac{1}{5}(t^4 + 6)$ ⑥ $g(t) = \sqrt{t} - \frac{1}{\sqrt{t}}$

⑦ $h(x) = (2x^4 + 6)(x^2 - 5)$ ⑧ $y = \sqrt{x}(x - 1)$

⑨ $g = \frac{t^4}{5t^4 - t + 1}$ ⑩ $y = \frac{v^2 - 4v\sqrt{v}}{v}$

⑪ $y = A + \frac{B}{x^2} + \frac{C}{x^3}$ ⑫ $y = \sqrt[3]{t^2}(t^2 + t + t^{-1})$

⑬ $y = (x^3 + 3x)^{100}$ ⑭ $\sqrt{x^2 + x - 6} = y$

⑮ $y = (t^2 - 1)^3(t^5 - 1)^6$ ⑯ $y = \sqrt{\frac{x-1}{x+1}}$

note by: Hisham J. J. J.

