

Shivaji College, University of Delhi
B.A.(P) Major Economics Sem 3

Department of Economics Optimization Methods for Economic Analysis
Maximum Marks: 10; (Academic Year 2023-24)

Last date of submission: 27th October, 2023 (Internal Assignment)
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Q-1. Solve the following inequalities: (5)

(a) $3x - 1 < 7x + 2$

(b) $5x + 1 < x + 3$

(c) $2x + 5 < x - 4$

(d) $2x - 1 < 6x + 5$

(e) $|2x + 3| \leq 5$

Q-2. Find $f'(1)$ from the following functions: (5)

(a) $y = f(x) = 18x$

(b) $y = f(x) = -5x^{-2}$

(c) $y = f(x) = 6x^{1/3}$

(d) $y = f(x) = cx^3$

(e) $y = f(x) = \frac{3}{4}x^{4/3}$

Bhumnika