

- 1.(d) S1 and S3 (Fischer's Index is ideal, it satisfies only these two)
- 2.(b) $(0.1)(0.99)^9$
- 3.(d) The sample standard deviation is one third its original value
- 4.(c) III and IV
- 5.(c) $g(y) = 2f(\sqrt{y})$ for any $y = 1, 4, \dots, 400$ and $g(y) = 0$ otherwise
- 6.(b) The goods are perfect substitutes
- 7.(c) price of good x is less than or equal to price of good y
- 8.(c) price must be higher in the market with lower price elasticity of demand
- 9.(d) 5 and 10
- 10.(d) 1
- 11.(b) becomes flatter
- 12.(b) it leads to lower level of output in the equilibrium
- 13.(c) the steady state rate of growth remains unchanged
- 14.(c) expected currency depreciation must equal the currency differential plus the risk premium
- 15.(c) 1, 3 and 4
- 16.(d) g is a linear function, f is not linear
- 17.(b) $-(yx^{y-1} + z^x \ln(z))/(xz^{x-1} + y^z \ln(y))$
- 18.(c) a constant
- 19.(a) will change the sign of $\det A$
- 20.(e) Not sure
- 21.(b) Rs. 3000 to 4000
- 22.(c) 0.95 and 0.55
- 23.(a) A unit change in X is associated with a 1.25 unit change in Y , and a one unit change in Y is associated with a 0.6 unit change in X
- 24.(c) The probability that the life of the tyre will be between 336.84 and 363.16 days is 90%
- 25.(c) Given $H_A: \pi \neq 0.1$, we reject the null at the 10% level of significance, and the probability of error type I of this test is 0.1
- 26.(a) If $H_A: \mu_1 - \mu_2 \neq 0$ we reject the null hypothesis at the 15%, 13%, 12% and 8% level of significance
- 27.(c) The chain base price indices with 2000 as base year are $P_{01} = 148.3$, $P_{02} = 154.2$, and $P_{03} = 144.9$
- 28.(d) 80/215
- 29.(b) only II and III
- 30.(c) 15/23
- 31.(a) $(x_2, y_2) = (1 - x_1, 1 - y_1)$ for all $x_1, y_1 \in [0, 1]$
- 32.(d) Pareto Efficient
- 33.(b) $(x_1, y_1) = (1, 1)$ and $(x_2, y_2) = (1, 0)$
- 34.(c) $(p_x, p_y) = (1, 1)$
- 35.(c) a subsidy of 1 to person 1 and a tax of 1 on person 2
- 36.(a) Ms A's choices violate the weak axiom of revealed preference
- 37.(c) 5, 5, 2/5
- 38.(d) $5K^2/(K^2 + F^2)$
- 39.(c) $10K^2F^2/(K^2 + F^2)$
- 40.(a) $C^*(x) = 2 + 2x$, if $x \in [0, 2]$, $4 + x$, if $x > 2$
- 41.(b) $L^d = \bar{K}(A\alpha)^{1/(1-\alpha)} \left(\frac{W}{P}\right)^{1/(\alpha-1)}$
- 42.(a) shifts up
- 43.(a) $L^s = \left(\frac{\bar{L} \left(\frac{W}{P}\right)^{\frac{\beta}{1-\beta}}}{1 + \left(\frac{W}{P}\right)^{\frac{\beta}{1-\beta}}}\right)$
- 44.(b) shifts down
- 45.(d) $W/P = [2 + 2\sqrt{2}]^{1/2}$
- 46.(c) vertical
- 47.(c) it increases by $\frac{b}{b[1 - c(1 - \tau)] + ad}$ units
- 48.(d) it decreases by $\frac{b[1 - c(1 - \tau)]}{b[1 - c(1 - \tau)] + ad}$ units
- 49.(c) it increases by $\frac{[1 - c(1 - \tau)] [\bar{M}/(\bar{P})^2]}{b[1 - c(1 - \tau)] + ad}$ units
- 50.(b) downward sloping
- 51.(d) the rows of A are linearly independent
- 52.(a) strictly convex
- 53.(c) exactly one solution
- 54.(a) If Player 2 plays appropriately, he can win regardless of how 1 actually plays
- 55.(d) $\lim_{n \rightarrow \infty} f_n(x)$ exists for all but a finite set of real numbers
- 56.(c) a constant sequence
- 57.(b) a set having a single point
- 58.(a) e^π
- 59.(c) is discontinuous at $x = 0$
- 60.(c) are linearly dependent

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