MPE_AMI2: Sample test

J	méno a příjmení – pište do okénka		UČO	Číslo zadání
				1
B C D	The inverse demand function for grapes is described by the equation $p = 518 - 5q$, where p is the price in dollars per crate and q is the number of crates of grapes demanded per week. When $p = 38 per crate, what is the price elasticity of demand for grapes? -190/96 -5/518 -5/96 -96/38 -38/480	4 A B *C D E	The inverse demand for rides amusement park (with only t is $p = 50 - q$ and marginal 10 CZK. If the amusement pr tariff, then apart from the pri consumer will pay an entry f 200 CZK. 450 CZK. 800 CZK. 0 CZK. 1250 CZK.	his one attraction cost of one ride ark uses a two-pa ce for each ride th
2 *A B C	All firms in a perfectly competitive industry ha- ve the same cost functions and increasing mar- ginal cost functions. If the price is above the average variable costs (at the optimal quantity) in the short-run, than in the long run both the quantity produced by each firm and the market price decrease. both the quantity produced by each firm and the market price increase. the quantity produced by each firm increases	5 *A B C D E	If a firm moves from one poi isoquant to another point on which of the following will cer A change in the level of outp A change in the ratio in wh combined A change in the marginal pro A change in the rate of techr A change in profitability	the same isoquar tainly not happen ut ich the inputs a ducts of the inpu
D E	and the market price decreases. the quantity produced by each firm decreases and the market price increases. will be no change in the quantity produced by each firm and in the market price.	6 A	If there are only two goods, is always preferred to less, a 2 is always preferred to more curves slope downward.	and if less of goo
3	Edmund must pay \$6 each for punk rock video cassettes, V . If Edmund is paid \$24 per sack for accepting garbage, G , and if his relatives send him an allowance of \$96, then his budget line is	*B C D E	slope upward. may cross. could take the form of ellipse None of the above.	s.
A B	described by the equation 6V = 24G. 6V + 24G = 96.	7	Martin consumes apples A a draw pears on the vertical as pe of the indifference curve point $(A, P) = (4, 4)$?	is, what is the sl
C *D	6V = 96 - G. 6V - 24G = 96.	A B *C	-1/8 -1/6 -1/4	
Ē	None of the above.	D E	-1/2 -1	

MPE AMI2: Sample test Zadání č. 1 8 An industry has 100 firms. These firms have **11** Charlie has a utility function $U(x_A, x_B) =$ identical production functions. In the short run, $x_A x_B$, the price of apples is \$1, and the price each firm has fixed costs of \$200. There are two of bananas is \$2. If Charlie's income were \$200. variable factors in the short run and output is how many units of bananas would he consume if given by $y = (\min\{x_1, 4x_2\})^{1/2}$. The cost of fache chose the bundle that maximized his utility tor 1 is \$5 per unit and the cost of factor 2 is \$5 subject to his budget constraint? per unit. In the short run, the industry supply **A** 25 curve is given by ***B** 50 **C** 10 **D** 100 *A Q = 8p. **E** 150 **B** Q = 10p. **12** A monopoly has the demand curve q = 10,000 -100p. Its total cost function is c(q) = 1,000+10q**C** $Q = 580p^{1/2}$. The government plans to tax the monopoly's profits at a rate of 50%. If it does so, the mono-**D** the part of the line $Q = 50(\min\{5, 20\})$ for which poly will pQ > 200/Q. \mathbf{E} None of the above. A increase its price by 50%. **B** increase its price by more than 50%. **C** recover some but not all of the tax it pays by increasing its price. *D not change its price or the quantity it sells. 9 Miss Muffet insists on consuming 2 units of whey E None of the above. per 1 unit of curds. If the price of curds is \$5 and $|\mathbf{13}|$ Bella's budget line for x and y depends on all of the price of whey is \$6, then if Miss Muffet's inthe following except come is m, her demand for curds will be **A** the amount of money she has to spend on x and **A** 5c + 6w = m. у. **B** 6m/5. **B** the price of x. **C** 5*m*. *C her preferences between x and y. **D** m/5. **D** the price of y. E None of the above. *E m/17. **14** The production function is given by f(x) = $4x^{1/2}$. If the price of the commodity produced is \$80 per unit and the cost of the input is \$40 per unit, how much profits will the firm make if **10** Ike's utility function is U(x,y) = 25xy. He it maximizes profits? has 12 units of good x and 8 units of good y. **A** \$318 Ben's utility function for the same two goods is **B** \$1.284 U(x, y) = 4x + 4y. Ben has 9 units of x and 13 *C \$640 units of y. **D** \$625 *A Ike prefers Ben's bundle to his own bundle, but E \$323 Ben prefers his own bundle to Ike's. в Ben prefers Ike's bundle to his own, but Ike pre-15 The following relationship must hold between fers his own bundle to Ben's. the average total cost (ATC) curve and the mar-**C** Each prefers the other's bundle to his own. ginal cost curve (MC): **D** Neither prefers the other's bundle to his own. A If MC is rising, ATC must be rising. E Since they have different preferences, there is **B** If MC is rising, ATC must be greater than MC. not enough information to determine who envies **C** If MC is rising, ATC must be less than MC. whom. *D If ATC is rising, MC must be greater than ATC. **E** If ATC is rising, MC must be less than ATC.

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16 Choose the true statement. If more statement are true, choose the answer marked by (P) A consumer buys two goods. Good X is measu red at the horizontal and good Y at the vertica axis. If the budget line has a slope lower than -1 (e.g. -2), then	$ \begin{array}{c c} & & & & & & & \\ \hline & & & & & \\ \hline & & & &$
 A the consumer has a higher utility from good X than from good Y. B the price of good X is lower than the price of 	 A 300 gallons B 75 gallons
good Y .	*D 150 gallons E none of the above.
$ \mathbf{C} \text{the consumer has a lower utility from good } \mathcal{X} \\ \text{than from good } Y. $	[21] The conclusion that the indifference curves representing distinct levels of preference cannot
* D the price of good X is higher than the price of good Y .	f cross follows from the assumption of A reflexivity.
E (P) More than one of the other statements are true.	D
17 According to the first theorem of welfare econo mics:	
 A every competitive equilibrium is fair. B if the economy is in a competitive equilibrium there is no way to make anyone better off. C a competitive equilibrium always exists. 	1 1
 D at a Pareto optimum, all consumers must be equally wealthy. *E None of the above. 	 B corresponds to a horizontal line at the level of the minimum of average costs. C is influenced by the possibility of entry.
18 A competitive firm produces output using three fixed factors and one variable factor. The firm's short-run production function is $q = 305x - 2x^2$	E More than one of the above answers is correct.
where x is the amount of variable factor used The price of the output is \$2 per unit and the price of the variable factor is \$10 per unit. In the	e *A percentage change in quantity divided by the percentage change in income.
short run, how many units of x should the firm use?	change in quantity.
A 37 B 150 C 21 *D 75	 C measures the slope of the Engel curve. D depends on the units that measure the quantity and income of the given good. E More than one above answer is correct.
E None of the above.	- [24] Goods 1 and 2 are perfect complements and a
19 An industry has two firms - a Stackelberg leade and a follower. The price of the industry output is given by $P = 84 - Q$, where Q is the totat output of the two firms. The follower has a mar ginal cost of \$0. The leader has a marginal cost of \$21. How much should the leader produce in	r consumer always consumes them in the ratio of 2 units of good 2 to 1 unit of good 1. If a con- sumer has an income of \$300 and if the price of good 2 changes from \$5 to \$6, while the price of t good 1 stays at \$1, then the income effect of the
order to maximize profits? *A 21 B 24 C 42	 A is 6 times as strong as the substitution effect. B does not change the demand for good 1. *C accounts for the entire change in demand. D is exactly twice as strong as the substitution ef-
D 19 E None of the above.	 E is 5 times as strong as the substitution effect. E is 5 times as strong as the substitution effect.

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25	A firm has the long-run cost function $C(q) = 3q^2 + 27$. In the long run, it will supply a positive amount of output, so long as the price is	29	A monopolist has decreasing average costs a output increases. If the monopolist sets price equal to average cost, it will
Α	greater than \$36.	Α	produce too much output from the standpoin of efficiency.
В	\$44.	в	lose money.
\mathbf{C}	\$9.	*C	produce too little output from the standpoint of
*D	\$18.	Б	efficiency.
Е	\$23.	D E	maximize its profits. face excess demand.
26	Harley's current wealth is \$600, but there is a .25 probability that he will lose \$100. Harley is risk neutral. He has an opportunity to buy insurance that would restore his \$100 if he lost it.	30	Suppose that in Enigma, Ohio, klutzes have productivity of \$1,000 and kandos have a pr ductivity of \$5,000 per month. You can't tell klutzes from kandos by looking at them or askin
Α	Harley would be willing to pay a bit more than		them, and it is too expensive to monitor individual productivity. Kandos, however, have mon
* Ъ	\$25 for this insurance.		patience than klutzes. Listening to an hour of
B	Harley would be willing to pay up to \$25 for this insurance. Since Harley is risk neutral, he wouldn't be wil-		dull lectures is as bad as losing \$250 for a klut and \$100 for a kando. There will be a separa ting equilibrium in which anybody who attend
D	ling to pay anything for this insurance. Since Harley's utility function is not specified, we can't tell how much he would be willing to pay for this insurance.		a course of H hours of lectures is paid \$5,000 pc month and anybody who does not is paid \$1,000 per month
Е	Harley would not be willing to pay more than \$16.66 for this insurance.	Α	if $16 < H < 80$.
27	Dr. Erasmus needs for production of a study ma-	*В	if $16 < H < 40$.
	terial S always 1 hour of work time and 2 hours of photocopier time. One hour of work W costs	С	only in the limit as ${\cal H}$ approaches infinity.
	300 CZK and one hour of photocopier C costs 200 CZK. At the current input prices the cost function is	D	for all positive values of H .
		_E	if $14 < H < 35$.
Α	c(S) = 200S.		
в	c(S) = 300S.		
С	c(S) = 500S.		
*D	c(S) = 700S.		
Е	c(S) = 800S.		
28	An orange grower has discovered a process for producing oranges that requires two inputs. The production function is $Q = \min\{2x_1, x_2\}$, whe- re x_1 and x_2 are the amounts of inputs 1 and 2 that he uses. The prices of these two inputs are		
	$w_1 = $ \$5 and $w_2 =$ \$10, respectively. The minimum cost of producing 160 units is therefore		
*Δ	\$2,000.		
B	\$2,400.		
\mathbf{C}	\$800.		
D	\$8,000. \$1,600		
\mathbf{E}	\$1,600.		