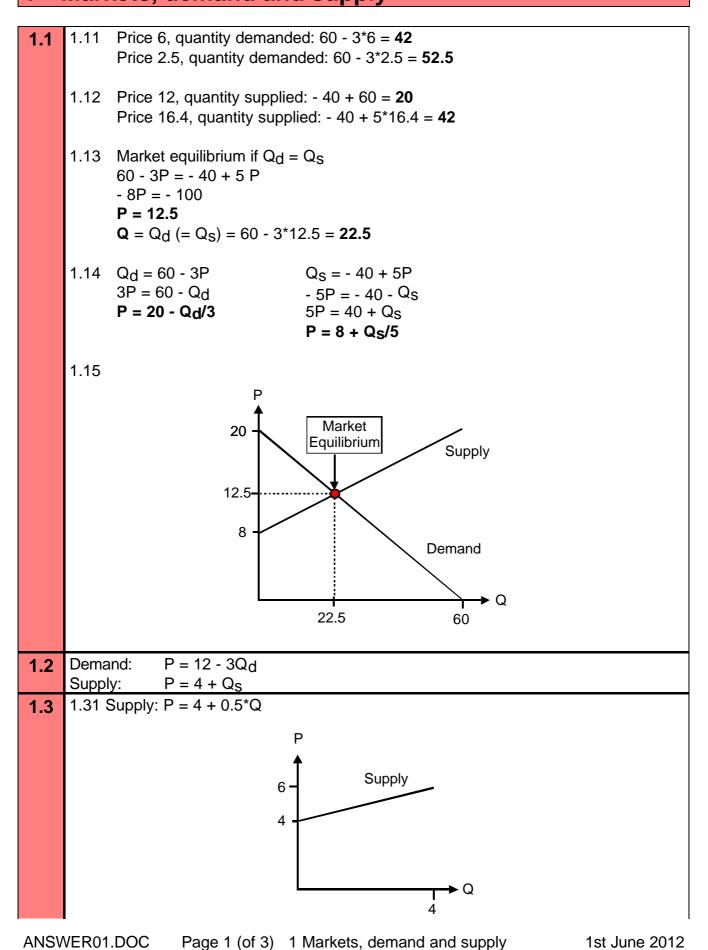
## Microeconomics and mathematics (with answers) Markets, demand and supply 1 Remarks: Abbreviations: Q = Quantity / P = Price / Qd = Demand / Qs = Supply $Q_{d}, Q_{s}, P > 0$ Questions 5 and 6: You have to be familiar with quadratic equations. You can solve them either by factorization (if possible) or by using the formula. Qd = 60 - 3P1.1 $Q_{S} = -40 + 5P$ 1.11 Calculate the quantity demanded if the price is • 6 • 2.5 1.12 Calculate the quantity supplied if the price is • 12 • 16.4 1.13 Calculate the market equilibrium (P and Q). 1.14 Rearrange the demand and supply function to obtain inverse functions: (P = ...)1.15 Graph this market (x-axis: Q / y-axis: P). Which are the demand and the supply function (P = ...) for the following market? 1.2 Ρ 12 Supply 6 Demand 4 ► Q 2 4 $P = 4 + 0.5 * Q_S$ 1.3 1.31 Graph supply. 1.32 When graphing supply, which role do the values of 4 and 0.5 play?

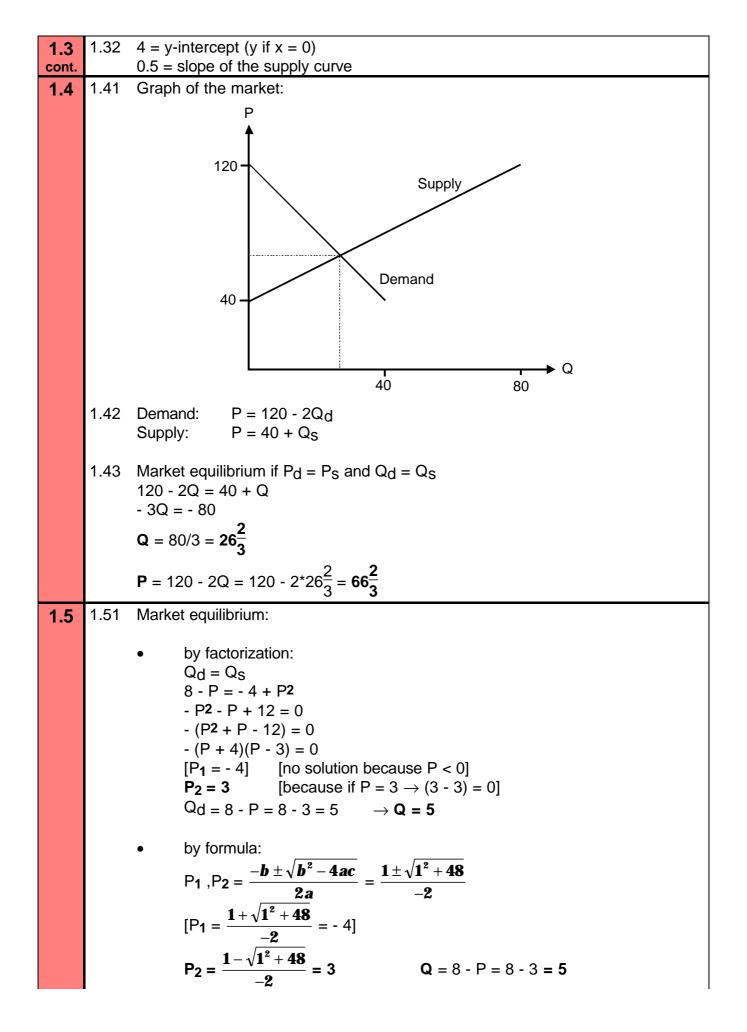
1.4	Demand and supply on a market:			
	Price	Demand	Supply	
	120	0	80	
	110	5	70	
	100	10	60	
	90	15	50	
	80	20	40	
	70	25	30	
	60	30	20	
	50	35	10	
	40	40	0	
	1.41 Graph this market.			
	1.42 Find the demand and the supply function ( $P =$ ).			
	1.43 Calculate the market equilibrium (P, Q).			
1.5	Qd = 8 - P			
	$Q_{S} = -4 + P^{2}$			
	1.51 Calculate the market equilibrium.			
	1.52 Sketch this market.			
1.6	Qd = 8 - 3P			
	Q <sub>S</sub> = - 2 + P <b>2</b>			
	Calculate the market equilibrium.			

## $\rightarrow$ Answers. Click here!

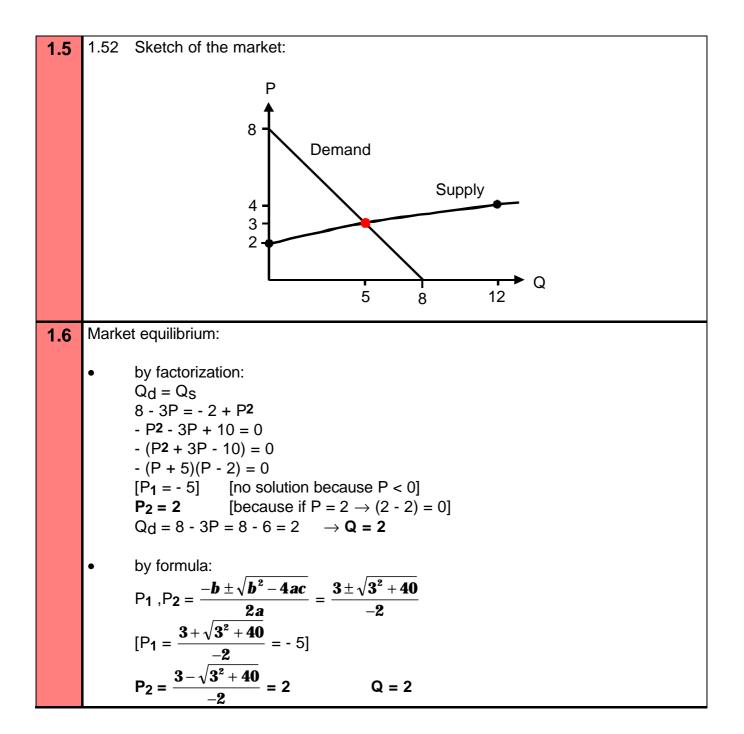
## Answers *Microeconomics* and mathematics Markets, demand and supply

1





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