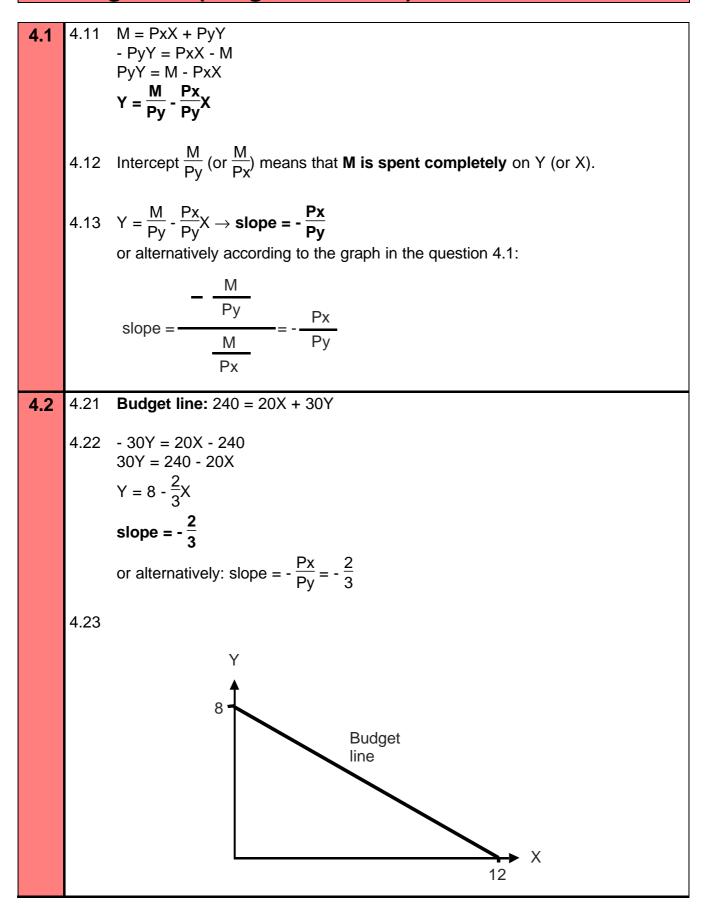
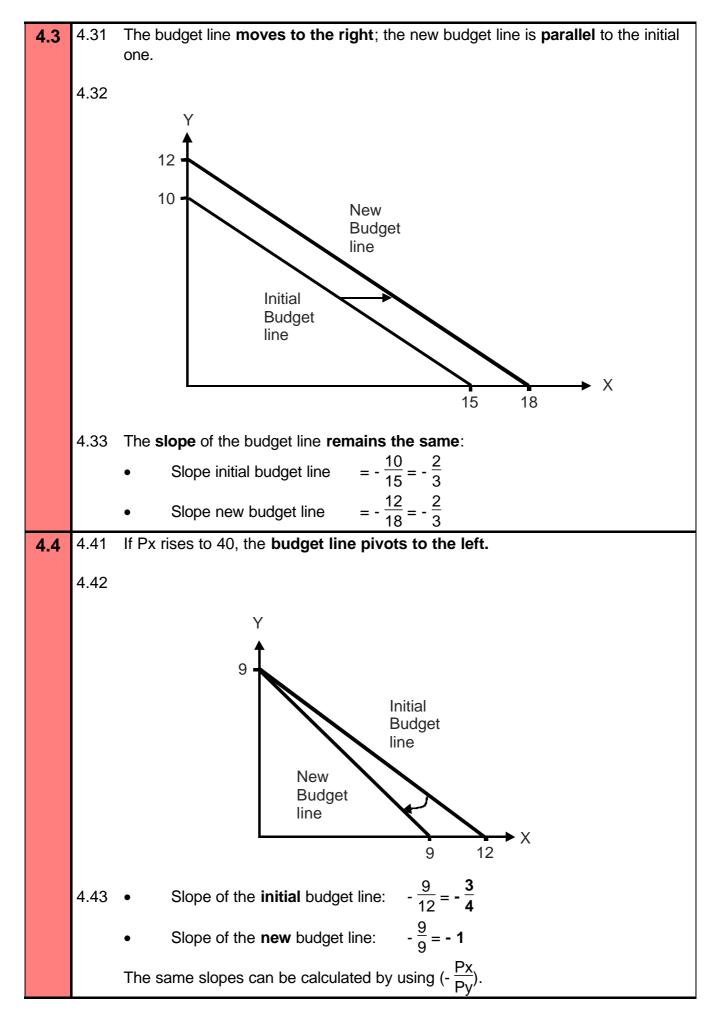


4.5	 The following events happen simultaneously: the income (completely spent on buying X and Y) falls from 400 to 360; the price of X falls from 20 to 18, the price of Y remains unchanged at 40. Calculate the slope of the initial and of the new budget line. 			
4.6	Sentence: A halving of the prices good A and good B has the same effect on the budget line as doubling the income.			
	4.61 Is this sentence true or false? Show it by using the equation of the budget line $(M =)$.			
	4.62 What about the opposite? Doubling the prices good A and good B has the same effect on the budget line as halving of the income.			

\rightarrow Answers. Click here!

Answers *Microeconomics* and mathematics 4 Budget line (budget constraint)





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4.5	Slopes $\rightarrow (-\frac{Px}{Py})$:					
	•	Initial budget line:				
		$-\frac{20}{40}=-\frac{1}{2}$				
	•	New budget line:				
		$-\frac{18}{40} = -\frac{9}{20}$				
4.6	4.61	Initial budget line: $M = PxX + PyY$				
		New budget line:				
		Halving of the prices:	$M = \frac{PxX + PyY}{2}$	(Multiplying by 2)		
			2M = PxX + PyY			
		Doubling the income:	2M = PxX + PyY			
		Result: Halving of the prices and doublin	ng the income result i	in the same budget		
		line. Sentence is true.				
	4.62	Initial budget line: M = PxX + PyY New budget line:				
		Doubling the prices:	M = 2(PxX + PyY)	(Dividing by 2)		
			$\frac{M}{2} = PxX + PyY$			
			L			
		Halving of the income:	$\frac{iVI}{2} = PxX + PyY$			
		Result: Doubling the prices and halving of the income result in the same budget				
		line. Sentence is true, too.		J		

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