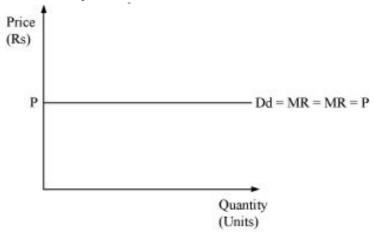
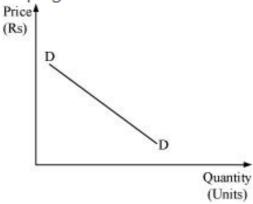


## Q1. What would be the shape of the demand curve so that the total revenue curve is

- (a) a positively sloped straight line passing through the origin? (b) a horizontal line?
- Ans:(a) If the total revenue curve is a positively sloped straight line passing through the origin, then the slope of the demand curve will be a horizontal line parallel to the x-axis.



(b) If the total revenue curve is a horizontal line, then the demand curve will be downward sloping.



Q2. From the schedule provided below calculate the total revenue, demand curve and the price elasticity of demand:

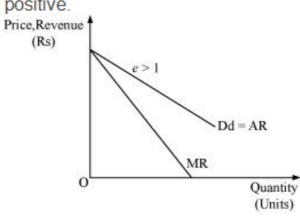
Quantity	1	2	3	4	5	6	7	8	9
Marginal Revenue	10	6	2	2	2	0	0	0	-5

## Ans:

MII3.				
Quantity	MR	TR	AR	$Ed = \frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$
1	10	10	$\frac{10}{1}_{=10}$	_
2	6	10 + 6 = 16	$\frac{16}{2}_{=8}$	$\frac{1}{2} \times \frac{10}{1} = 5$
3	2	16 + 2 = 18	$\frac{18}{3} = 6$	$\frac{1}{2} \times \frac{8}{2} = 2$
4	2	18 + 2 = 20	$\frac{20}{4} = 5$	$\frac{1}{1} \times \frac{6}{3} = 2$
5	2	20 + 2 = 22	$\frac{22}{5} = 4.5$	$\frac{1}{0.5} \times \frac{5}{4} = 2.5$
6	0	22 + 0 = 22	$\frac{22}{6} = 3.6$	$\frac{1}{0.9} \times \frac{4.5}{5} = 1$
7	0	22 + 0 = 22	$\frac{22}{7}$ =3.1	$\frac{1}{0.5} \times \frac{3.6}{6} = 1.2$
8	0	22 + 0 = 22	$\frac{22}{8} = 2.7$	$\frac{1}{0.4} \times \frac{3.1}{7} = 1.1$
9	-5	22 + (-5) = 17	$\frac{17}{9} = 1.9$	$\frac{1}{0.8} \times \frac{2.7}{9} = 0.38$

Q3. What is the value of the MR when the demand curve is elastic?

**Ans:**When demand curve is elastic  $(e_d > 1)$ , then according to the relationship MR =  $P\left(1 - \frac{1}{e_d}\right)$ , the fraction  $\frac{1}{e_d}$  will be less than 1. Hence, MR will be positive when  $P\left(1 - \frac{1}{e_d}\right)$  is positive.



\*\*\*\*\*\*\* END \*\*\*\*\*\*