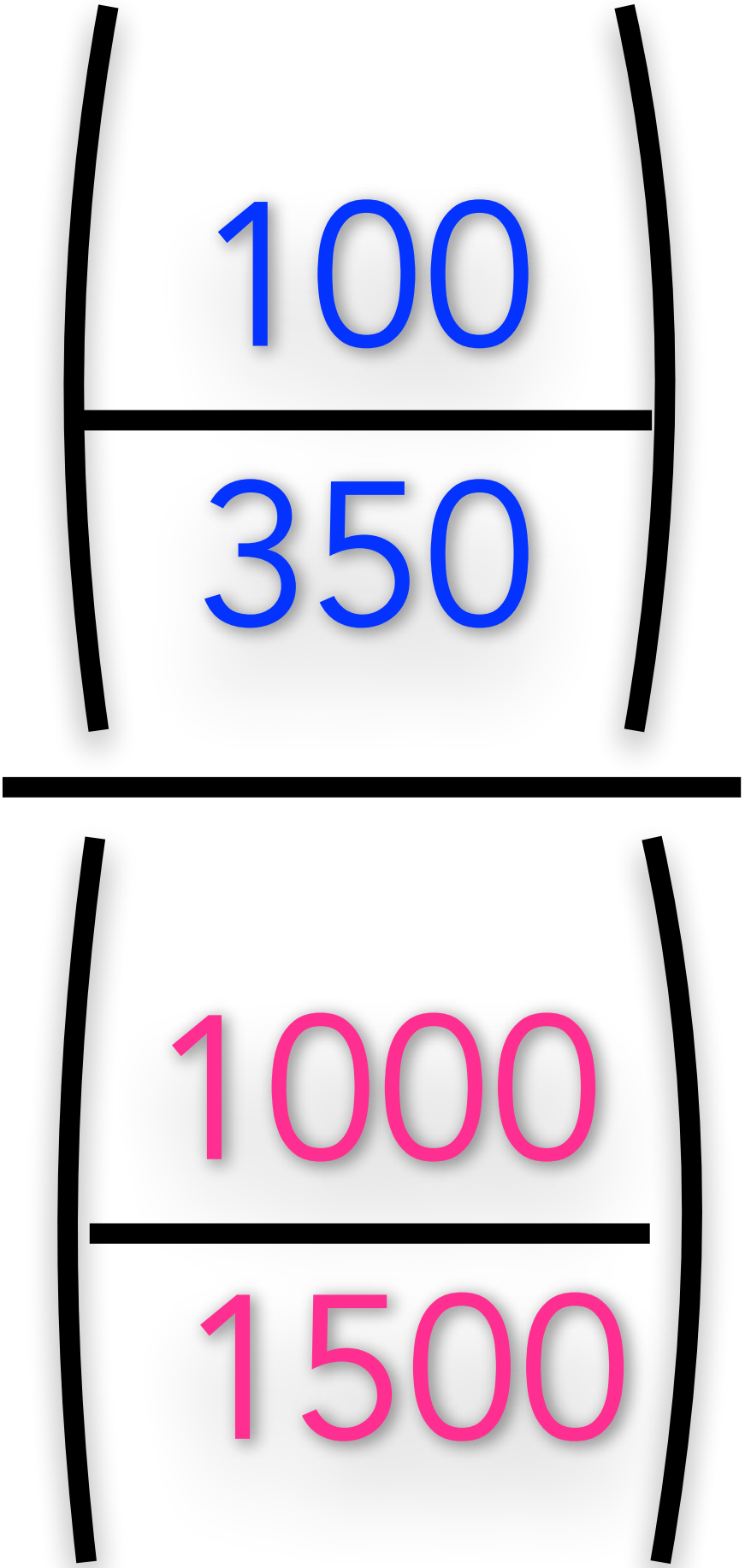
Income	Demand Good X
1000	300
2000	400

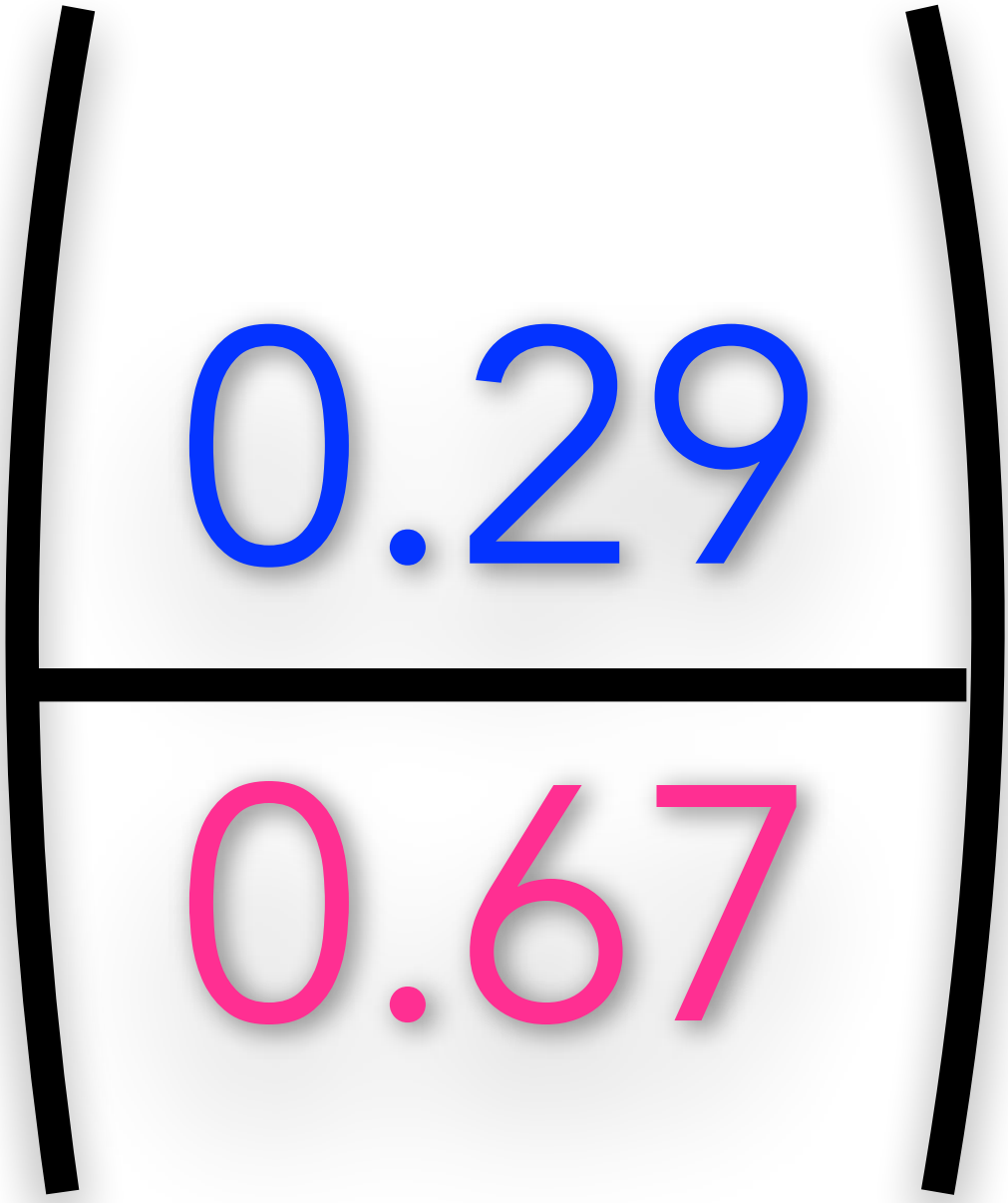
$$e_y^d = \frac{\%\Delta D}{\%\Delta \text{Income}}$$


e
y
d
=

$$\frac{\left(\frac{\text{Change in D}}{\text{Average D}}\right)}{\left(\frac{\text{Change in Income}}{\text{Average Income}}\right)}$$

$$\frac{\left(\frac{400-300}{(400+300)/2}\right)}{\left(\frac{2000-1000}{(2000+1000)/2}\right)}$$


100
350
1000
1500


0.29
0.67

$$= 0.43$$

Income	Demand Good X
1000	300
2000	400

$$e_y^d = \frac{\%\Delta D}{\%\Delta \text{Income}}$$

$$e_y^d = \frac{\left(\frac{\text{Change in D}}{\text{Average D}}\right)}{\left(\frac{\text{Change in Income}}{\text{Average Income}}\right)} = \frac{\left(\frac{400\text{-}300}{(400+300)/2}\right)}{\left(\frac{2000 - 1000}{(2000+1000)/2}\right)} = \frac{\left(\frac{100}{350}\right)}{\left(\frac{1000}{1500}\right)} = \left(\frac{0.29}{0.67}\right) = 0.43$$

$$e_y^d = \frac{\text{\% change in demand}}{\text{\% change in Income}}$$