

A)  $E_{xy} = \frac{\Delta Q_y}{\Delta P_x} = \frac{25-20}{-P} = \frac{-5}{p}$

B) goods X and Y are compliments because cross elasticity has negative sign “-”

C)  $MRTS = \frac{-x_1}{x_2} = \frac{MP_2}{MP_1}$

$$MP(p) = 1 - 0,02P$$

$$MP(N) = 2 - 0,06N$$

$$MRTS = \frac{2 - 0,06N}{1 - 0,02P}$$