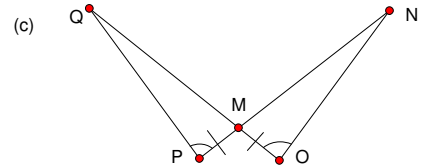
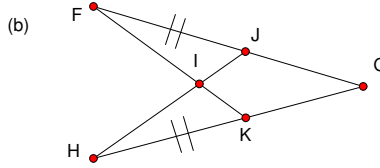
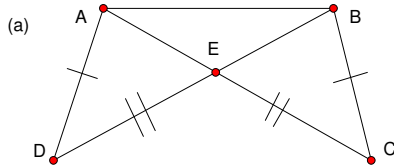


1. This problem wasn't constructed well. (a) and (b) have no similarities or congruencies. In (c), $\triangle QMP \cong \triangle NMO$ because of ASA.



2. $x = 1.1, y = 75$

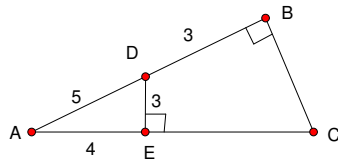
3. 6

4. $RS = 41.5, \angle TPS = 60$

5. $\triangle AED \sim \triangle ABC$

$$\frac{BC}{3} = \frac{8}{4} \text{ and } \frac{EC + 4}{5} = \frac{8}{4}$$

$BC = 6$ and $EC = 6$



6. $CX = \frac{16}{3}$