Of Dixtance constant
$$\frac{S_1}{S_2} = \frac{T_2}{T_1}$$

$$\frac{2+4}{2-4} = \frac{3}{2}$$

$$2x+8=3x-12$$

$$2x+8=3x-12$$

$$2x+8=3x-12$$

$$2x+8=3x-12$$

$$2x+8=3x-12$$

$$2x+8=3x-12$$

$$3x+12$$

$$3x+12$$

$$3x+12$$

$$4x+1$$

$$3x+12$$

$$3x+12$$

$$3x+12$$

$$4x+1$$

$$3x+12$$

$$3x+12$$

$$\begin{array}{ccc}
0^{2} & \mathcal{D}^{2} & \mathcal{U} \\
T \Rightarrow \lambda^{2} & 3x \\
S \Rightarrow 3x & x
\end{array}$$

Jime & Speed

are inversely

proportional

Speed & stream = (3x - x)

Speed of stream =
$$(\frac{3x-x}{2})$$

$$x = 4\frac{2}{3} \text{ km/hs}$$

$$\begin{array}{c} 3 \\ 2 \\ A \end{array} \xrightarrow{\chi} B$$

Downstream = $\frac{8}{20m} \times 60$ = 24 km/hz

Speed in still water = 1 (24+8)

$$= \frac{1}{2} \times 32$$

$$= 16 \text{ km/m}$$

Time = Distance Speed in still water

9 9 hr 40 min

$$9 + \frac{48}{60}$$
 $\frac{49}{5} = 9.8$

Jime 9.8:7 Speed 7:9.8

Time & speed are inversely proportional

(c) ong

$$39 \quad 2 = 5 \text{ Kmph}$$

$$5 - y = 3.5$$

$$y = 5 - 3.5$$

$$y = 1.5$$

$$5 + 1.5 = 6.5 \text{ Km/hz}$$

$$(1) \quad 3 = 3$$

Q10

$$2!$$

 $2(x-y)=x+y$
 $2(x-2y)=x+y$
 $2x-2y=x+y$
 $3y=3y$
 $42=3y$
 $43=3y$
 43

$$\frac{60}{a+b} + \frac{40}{a-b} = 8$$

$$\frac{45}{a+b} + \frac{40}{a-b} = 7$$

$$\frac{15}{a+b} = 1$$

atb = 15 - (3)