6. time op $=$ time down
$t=\frac{d}{V}$
a) $\frac{8}{v-6}=\frac{12}{v v+6}$

$$
30-6=24 \mathrm{~km} / \mathrm{h}
$$

b)

$$
\text { b) } \begin{aligned}
8 v+48 & =12 v-72 \\
120 & =4 v \\
30 & =v
\end{aligned}
$$

$$
\frac{18}{24}=\underset{\substack{4 \\ 45 \mathrm{~min}}}{0.75 \mathrm{hrs}}
$$

3. 

$$
\begin{aligned}
& \text { time }=\text { time }_{2} \\
& \frac{1800}{v}=\frac{1800}{v+50} \times 1.6
\end{aligned}
$$

5. 

$$
\begin{aligned}
& x \frac{264 \mathrm{~km}}{x \mathrm{~km} / \mathrm{h}}=x\left(\frac{264}{1.6}+\frac{18}{60} v_{i r}\right. \\
& 264=240+0.3 v
\end{aligned}
$$

$$
\begin{aligned}
& \frac{81}{30}+\frac{38}{50}+\frac{15}{x}+\frac{29}{40} \\
& 4=.64 \\
& \begin{array}{l}
\text { pg.3 } 348-351 \\
\text { \#7 }-19,26
\end{array}
\end{aligned}
$$

 pg. 345 Ex)
$\left.\begin{array}{l}\text { Sheena } 40 \text { ming } \\ \text { Jeff } 50 \text { min }\end{array}\right\}$ What are their "speeds"?
Sheena $\frac{1 \text { job }}{40 \mathrm{mins}} \frac{1}{40} t+\frac{1}{50} t=1$

$590+400=2000$
$\frac{90 t=2000}{90}$
pg. 345 Your Torn

$$
t=22.2 \mathrm{mins}
$$

It will take them 1 hr 43 ming.

