$v_1=v+v_R$

$v_2=v-v_R$

$v_1*t_1=s$

$v_2*t_2=s$

$(v+vR)*t1=s$

$(v-v_R)*t_2=s$

$t=t_1+t_2 \Rightarrow t_1=t-t_2$

$(v+v_R)*(t-t_2)=s$

$(v-v_R)*t_2=s \Rightarrow t_2=\frac{s}{v-v_R}$

$(v+v_R)*(t-\frac{s}{v-v_R})=s$

$(v+4)*(5-\frac{48}{v-4})=s$

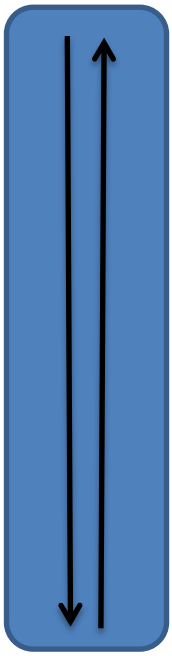
$(v+4)*\frac{5*(v-4)-48}{v-4}=48$

$(v+4)*\frac{5v-68}{v-4}=48$ /*(v+4)

$(v+4)*(5v-68)=48v-192$

$5v^2-48v-272=48v-192$ /-(48v-192)

$5v^2-96v-80=0$



s=48km

$t=t_1+t_2=5h$

D=9216-4*5(-80)=10816

$x_{1,2}=\frac{96\pm\sqrt{10816}}{10}=$ **20km*h^{-1}** / $-\frac{4}{5}$

Druhý koreň logicky vylúčime a ostal nám len prvý.