Jul 9. Sort.

We only look at a moments:

Myron has reached the top and

Fischer has reached top.

The steps shown on the escalator at ever

The steps shown on the escalator ait every moment is constant, denote it as D. Ve: the velocity of the escalator.

When My non remeter the top? $d_1 + 2S = D \leftarrow d_1, d_2$: the steps of escalator when Fischer reaches the top

dz + do = D.

Thus we know the distance the escalator has travelled while Myron stope but Fischer worlles is:

d': 5 steps.

Since the time Fischer has continued to walk is the same as the escalator "walks" for the distance of, and

 $V_m: V_F = 3:2$, $d_m: d_p: 3:2$ when t is the same. $d_F: \frac{2}{3} d_m$

the actual distance Fischer has woulded often Mynon has reached the final point is: $30 - \frac{3}{3} \cdot 25 = \frac{10}{3}$ steps.

The time of the escalator continues
to move is the save as that of
Fixther has walked after Mynon, and their velocities
are constant.

The ratio of their total distance will be the some as the ratio of the distance they both move often Myron has stopped.

$$d': \frac{10}{3} = d_2: d_0$$
 $5: \frac{10}{3} = d_2: d_0$
 $15: 10 = d_2: d_0$
 $d_2 = 30 \text{ steps}$
 $D = d_2 + d_0 = 50 \text{ steps}$