1) x/v = (k-x)/5.1v

5.1x = k-x

6.1x = k

X = k/6.1 = 10k/61

2) x/v = (k+x)/5.1v

5.1x = k+x

4.1x = k

X = k/4.1 = 10k/41`

3) vr = sqrt((5.1v)^2-v^2) = sqrt(26.01-1)\*v = sqrt(25.01)\*v