More things to compute — in homework :)

$$P(v)$$

$v_{\max}$ $<v>$ v_{rms}
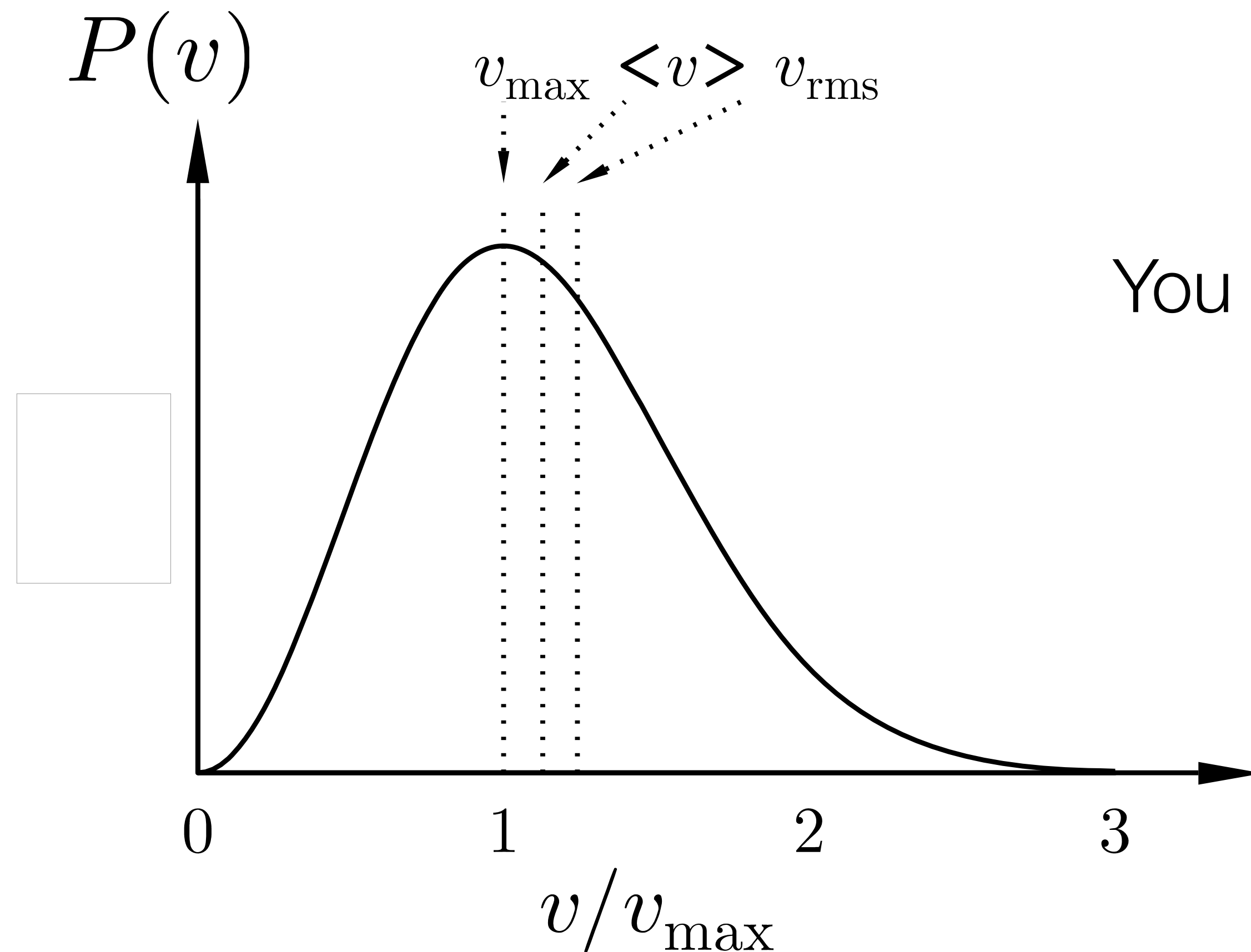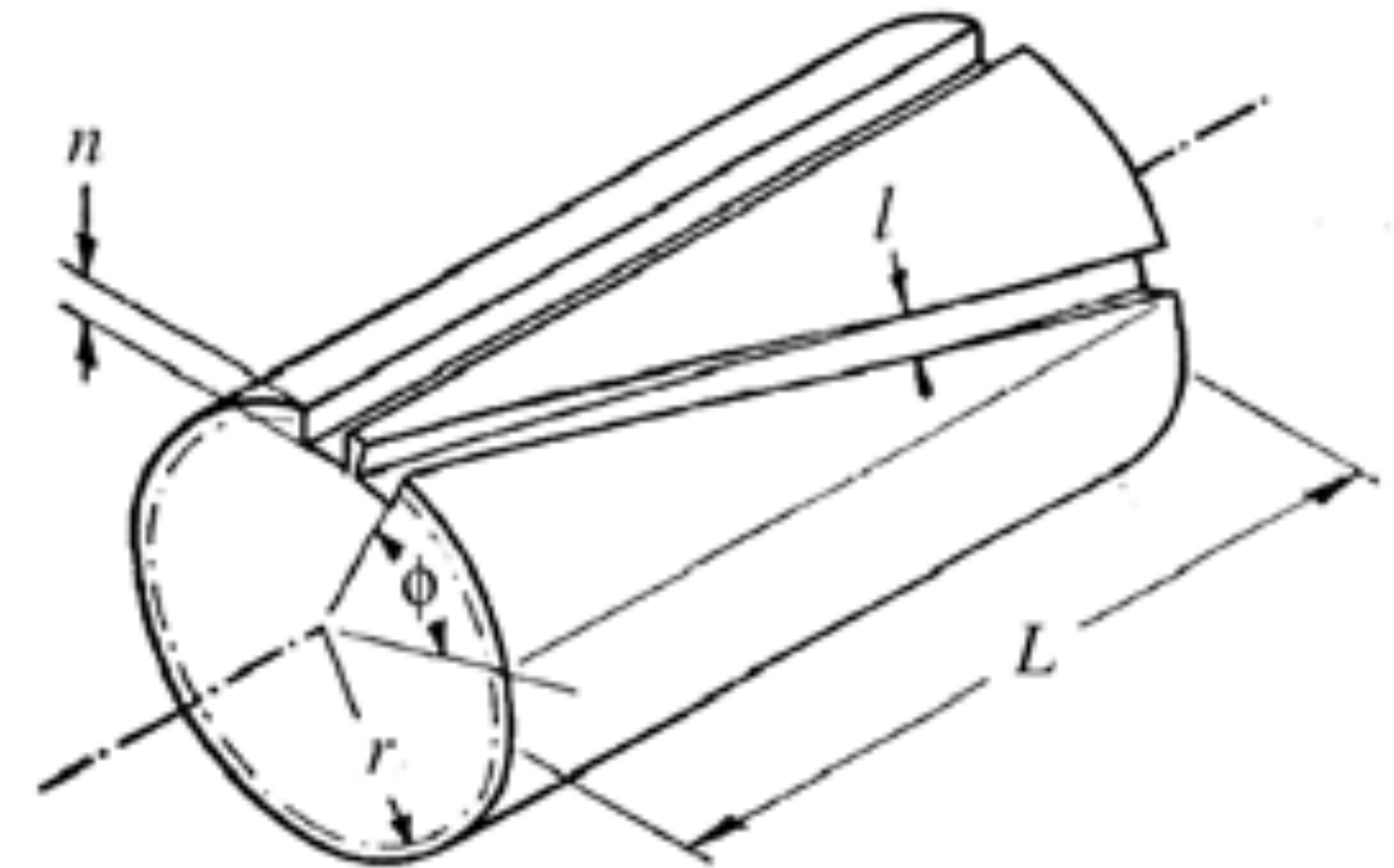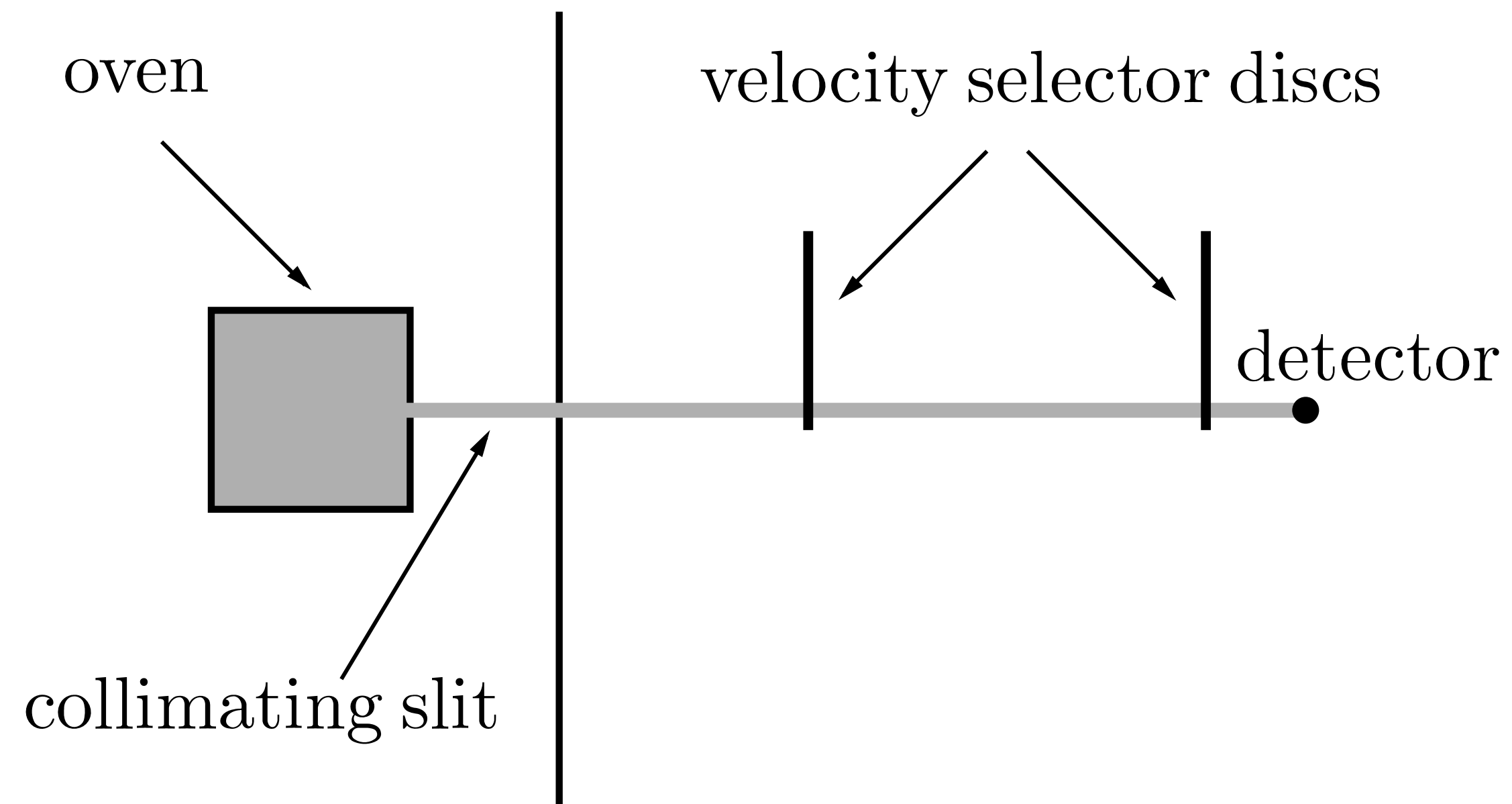
You can find $v_{\max}$ (the most probable speed)
by differentiation $dP(v)/dv = 0$

$v/v_{\max}$

0   1   2   3

Measuring the velocity distribution (see book for details)

Velocity selector: A turning drum with a slot

oven

velocity selector discs

detector

collimating slit

If the speed is $v = \omega L / \phi$ then the molecule gets through the slot.