

Applications/Story Problems

Max/Min

Get quadratic function

Find vertex with $x = -b/2a$, and maybe plug it into function

Mixture

$x + y = \text{total}$

$x\% + y\% = \text{total}\%$

Function given

Evaluate at certain input

find input if a certain output (height, and ground is $h=0$)

Work

Only time is given, and a job is being done

$1/ + 1/ = 1/$

D=RT

Fill out a DRT 2 by 3 table

Upstream DownStream

Always have the boat (car,..) speed first

Same Time

Fill out D and R and make $T=D/R$. Then set the T's equal

Total Time

Fill out D and R and make $T=D/R$. Then add the T's to equal the total time