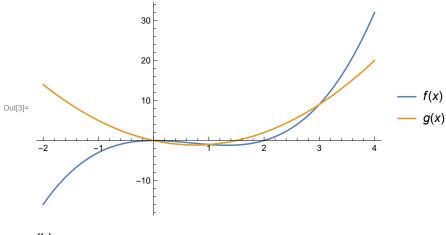
$$f(x) = x^3 - 2x^2$$

$$g(x) = 2x^2 - 3x$$

In[1]:=
$$f[x_{-}] = x^3 - 2x^2$$
;
 $g[x_{-}] = 2x^2 - 3x$;

ln[3]:= Plot[{f[x],g[x]}, {x, -2, 4}, PlotLegends \rightarrow "Expressions"]



(b)

$$In[4]:=$$
 Solve[f[x] == g[x], x]

Out[4]=
$$\left\{\,\left\{\,x\rightarrow0\,\right\}\,\text{, }\left\{\,x\rightarrow1\,\right\}\,\text{, }\left\{\,x\rightarrow3\,\right\}\,\right\}$$

(c)

$$\int_{0}^{1} (f[x] - g[x]) dx + \int_{1}^{3} (g[x] - f[x]) dx$$

Out[5]= $\frac{37}{12}$

So, total area is $(\frac{37}{12})$ unit².