AREA 2 4-x2 Find the area vader $y = -x^{2}+4$ and above y = -x-2 and y = 3x-6. $\int_{-2}^{1} (-x^{2}+4 - (-x-2)) dx$ $+ \int_{-1}^{2} (-x^{2}+4 - (-x-2)) dx = 50 \text{ units}^{2}$

Find the area between:

$$x+y^2 = 4$$
 and $x-y=-2$
 $x=4-y^2$ $x+2=94$
 $R-L$ $x=y-2$
 $\int_{-3}^{2} [(4-y^2)+(y+3)] dy$
 $\int_{-3}^{3} (-y^2 - y + 6) dy$
 $-y^3 - y^2 + 6y \Big|_{-3}^{2}$
 $-g_3^2 - 2 + 12 + (7 + 9 + 18)$
 $19 - 8/3 + 9/2$
 $\frac{114}{6} - \frac{16}{6} + \frac{27}{6} = \frac{125}{6}$ units²



