AREA 2 Find the area vader  $y = -x^2 + 4$ and above y = -x - 2 and y = 3x - 6.  $\int \left[ (-x^{2} + q) - (-x - 2) \right] dx$ +  $\int \int \left[ (-x^{2} + q) - (-x - 2) \right] dx$  =  $50^{2}$  units<sup>2</sup>

Find the area between: Find the area permen  $x + y^2 = 4$  and x - y = -2 x + 2 = y  $x = -y^2 + 4$  x = y - 2 x = y - 2 x = -2 x = -

Find area between  $\begin{array}{c}
-\chi_{y}=1 \quad \text{and} \quad \chi_{\pm}y^{2}=10.\\
\chi_{\pm}=1 \quad \chi_{\pm}=10-y^{2}\\
\chi_{\pm}=10-y^{2}\\
-y^{2}\pm10\\
\chi_{\pm}=1\\
\chi_{\pm}$ R-L (10-y<sup>2</sup>- y dy  $y f = 10 - y^2$  $|= 10y - y^{3}$  $y^{3} - 10y + 1 = 0$ y = 3.11 y = 0.1