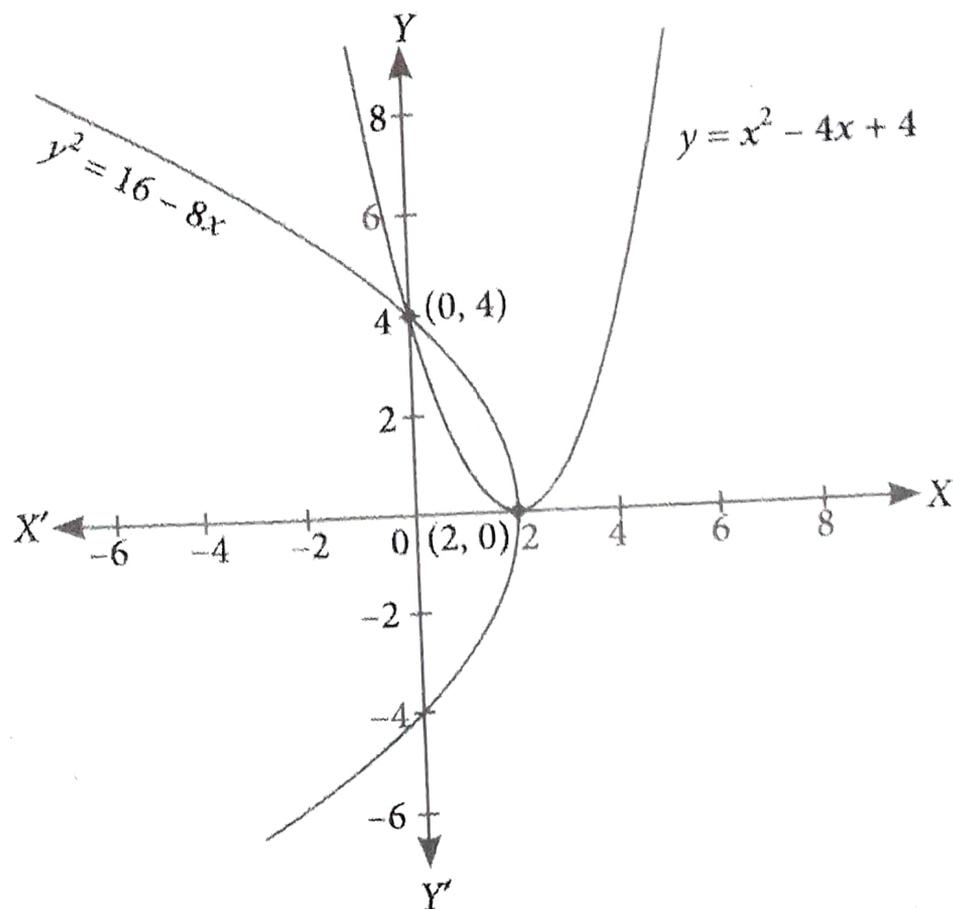**(c)** : The given curves are $y = x^2 - 4x + 4$ and $y^2 = 16 - 8x$

Points of intersection are $(2, 0)$ and $(0, 4)$.

$$\therefore \quad \text{Required Area} = \int_0^2 \left(\sqrt{16 - 8x} - (x^2 - 4x + 4) \right) dx$$

$$= 2\sqrt{2} \int_0^2 \sqrt{2 - x} \, dx - \int_0^2 (x - 2)^2 \, dx$$

$$= 2\sqrt{2} \left[\frac{2(2 - x)^{3/2}}{-3} \right]_0^2 - \left[\frac{(x - 2)^3}{3} \right]_0^2$$

$$= \frac{16}{3} - \frac{8}{3} = \frac{8}{3} \text{ sq. units}$$