$$-\int_{6}^{10} \frac{dv}{\sqrt{v}} \rightarrow \int_{6}^{10} v^{-1/2} dv$$

$$I = -\int_{6}^{10} 2v^{1/2} \rightarrow -2v^{1/2} = -2\int_{6}^{10} \sqrt{v}$$

$$I = -2(\sqrt{10} - \sqrt{6}) = 2(\sqrt{6} - \sqrt{10})$$

35-25=10