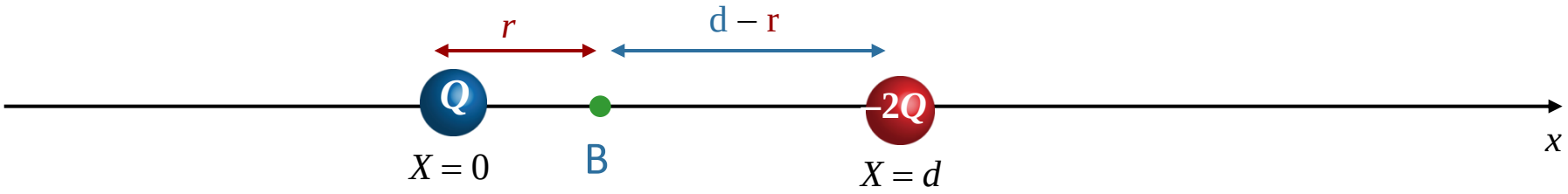
Lets work out where B is



Setting $\Delta U = 0$ → $\frac{1}{r} = \frac{2}{d-r}$

$$2r = d - r$$

$$r = \frac{d}{3}$$

Makes Sense!

Q is twice as far from $-2q$ as it is from $+q$