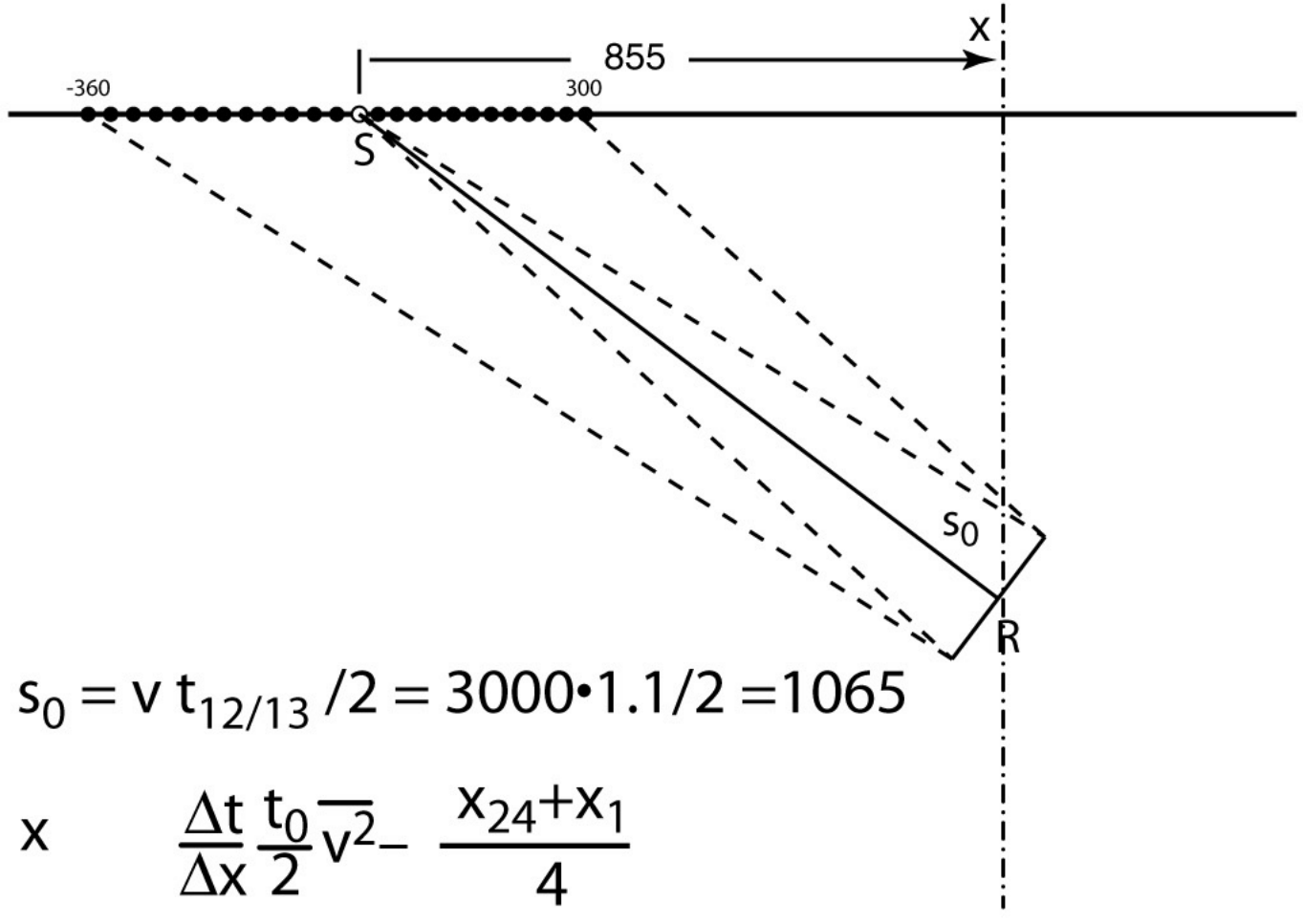
Find the point R that has a horizontal offset of x and is s_0 away from the source S.



$$s_0 = v\, t_{12/13}/2 = 3000 \cdot 1.1/2 = 1065$$

$$x \qquad \frac{\Delta t}{\Delta x}\frac{t_0}{2}\overline{v^2} - \frac{x_{24}+x_1}{4}$$

$$-\frac{\Delta t}{\Delta x} = 1.6818\ 10^{-4} \qquad \frac{t_0}{2} = 0.55 \qquad v^2 = 9\ 10^6$$

$$\frac{x_{24}+x_1}{4} = -15 \qquad x = 840 + 15 = 855$$