3

$$A(x) = E_{0I}\left(1 + p^2 + 2p\cos(2k_1 x)\right)^{\frac{1}{2}}$$

The max amplitude will be at x positions that maximize the cosine

$$\cos(2k_1 x) = 1$$

$$2k_1 x = n\pi$$

$$\boxed{x = \frac{n\pi}{2k_1}} \qquad n = 0, 1, 2, 3, \ldots$$