

Answer on Question #73107-Physics-Other

If you're looking out your window which is 32 feet from the ground, and your neighbor's yard is 20 feet away, in which there is an 8ft fence, how many feet past the fence will you first see the ground?

Solution

Using proportions:

$$\frac{x}{8} = \frac{x + 20}{32}$$

$$32x = 8(x + 20)$$

$$32x = 8x + 160$$

$$24x = 160$$

$$x = \frac{160}{24} = \frac{20}{3} \text{ ft} \approx 6.7 \text{ ft.}$$

Answer: $\frac{20}{3} \text{ ft} \approx 6.7 \text{ ft.}$

Answer provided by <https://www.AssignmentExpert.com>