

VIDEO: Complete the Square to Solve a Real-World Problem

Example 4: Complete the Square to Solve a Real-World Problem

Libby plans to create a rectangular pasturing enclosure. She has 340 m of fencing available for the enclosure's perimeter and wants it to have an area of $6,000 \text{ m}^2$. What dimensions should Libby use?

$$\begin{array}{r} 2w + 2l = 340 \\ \quad -2l \quad -2l \\ \hline \end{array}$$

$$\frac{2w}{2} = \frac{340 - 2l}{2} \quad \frac{-2l}{2}$$

$$w = \underline{\underline{170 - l}}$$

$$A = 6000 \quad A = lw$$

$$lw = 6000$$

$$l(170 - l) = 6000$$

$$170l - l^2 = 6000$$

$$\frac{-l^2 + 170l}{-1} = \frac{6000}{-1}$$

$$l^2 =$$

Real World Problem With Square Root

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Gu**



Real World Problem With Square Root:

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. 1. Wile?
. 2. What does the /etc/resolv.conf file do? What do the nameserver lines in
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