

$$(l + 3)^2 = l^2 + 33$$

$$(l + 3)(l + 3) = l^2 + 33$$

$$l^2 + 6l + 9 = l^2 + 33 \quad (l^2 \text{ on each side cancels})$$

$$\begin{array}{r} -9 \qquad -9 \\ \hline \end{array}$$

$$6l = 24$$

$$l = \frac{24}{6}$$

$$l = 4$$