Without solving the equation, state the number of solutions and whether they are real or non-real.

9. $-16x^2 + 4x + 13 = 0$ a=-16 b=4 c=13 16-(4.-16.13) 848 aread Solutions 11. $-x^2 - \frac{2}{5}x = 1$

 $410.7x^2-11x+10=0$ 0=7 0=11 0=10(-11)2-(4.7.10) 121- (4.7.10) -159 -> 2 non real solutions 12. $4x^2 + 9 = 12x$ -12x 72x

144-(4.4.9) 1 real solution

Answer the question by writing an equation and determining whether the solutions of the equation are real or non-real.

13. A gardener has 140 feet of fencing to put around a rectangular vegetable garden. The function $A(w) = 70w - w^2$ gives the garden's area A (in square feet) for any width w (in feet). Does the gardener have enough fencing for the area of the garden to be 1300 ft²?

X=12±~144-(4.4.9)

$$x = 12 \pm \sqrt{0}$$
 $x = 12 \pm 0$
 $x = 12 \pm 0$
 $x = 12 + 0$

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