x2 + 2x = 20

|  |  |  |
| --- | --- | --- |
| x | x2 + 2x | comment |
| 4  3  3.5  3.7  3.6  3.55 | 24  15  19.25  21.09  20.16  19.7025 | Too big  Too small  Too small  Too big  Too big  Too small |

x is between 3.55 and 3.6

x = 3.6 (1 d.p.)

x2 + 2x = 20

|  |  |  |
| --- | --- | --- |
| x | x2 + 2x | comment |
| 4  3.3  3.4  3.5  3.65  3.55  3.6 | 24  17.49  18.36  19.25  20.6225  19.7025  20.16 | Too big  Too small  Too small  Too small  Too big  Too small  Too big |

x = 3.6 (1 d.p.)

The length of one side of a rectangle is x.

This equation shows the area of the rectangle: x(x + 2) = 70

Find the value of x correct to 1 decimal place.

Show your working. You may find the following table useful:

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