Roots of a Cubic Equation with Solver

In this exercise use Solver to find the roots of the cubic equation:

2x3 + x2 - 246x + 360 = 0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Roots of a Cubic Equation with Solver |  |  |  |  |
|  |  |  |  |  |
| Coefficients |  |  | Roots | Function |
| a | 2.00 |  | -12.00 | 0.00 |
| b | 1.00 |  |  |  |
| c | -246.00 |  |  |  |
| d | 360.00 |  |  |  |
|  |  |  |  | Roots |
|  |  |  |  | 10 |
|  |  |  |  | 1.5 |
|  |  | 1.50000006264065 | | -12 |

1. Move to the cell E4 and select Solver from the Data menu. It will take a few seconds to load the first time. The Solver dialog box appears
2. Ensure that the *Set Target Cell* box contains the reference $E$4, that the *Value of* radio button is selected and the text box contains the value O.
3. Use the mouse to move to the *By Changing Cells* box. Either type "D4" in this cell (it will change to $D$4) or use the mouse to click on the cell D4.



