## FP1 Numerical Solutions of Equations Answers




| 2(a) | $\mathrm{f}(1.6)=-1.304, \mathrm{f}(1.8)=0.632$ | B1,B1 |  | Allow 1 dp throughout |
| :---: | :---: | :---: | :---: | :---: |
|  | Sign change, so root between | E1 | 3 |  |
| (b) | $\mathrm{f}(1.7)$ considered first | M1 |  |  |
|  | $\mathrm{f}(1.7)=-0.387$, so root $>1.7$ | A1 |  |  |
|  | $f(1.75)=0.109375$, so root $\approx 1.7$ | m1A1 | 4 | m 1 for $\mathrm{f}(1.65)$ after error |
|  | Total |  | 7 |  |

