

Answer on question #38598 – Math - Other

| | | |
|-----------------------|---------|--------------------------------|
| bond | 2000 | |
| ypayment at maturity | 101,50% | |
| yield on bank | 112% | |
| Interest on payments | 10,75% | quarterly payment twice a year |
| Price at maturity | 2030 | |
| Price Expected return | 2273,6 | |

| date | corpus | residue | interest | payment |
|----------|---------|---------|----------|---------|
| 1 | 82 | 2000 | 107,50 | 189,5 |
| 2 | 86,41 | 1918 | 103,09 | 189,5 |
| 3 | 91,05 | 1831,59 | 98,45 | 189,5 |
| 4 | 95,95 | 1740,54 | 93,55 | 189,5 |
| 5 | 101,10 | 1644,59 | 88,40 | 189,5 |
| 6 | 106,54 | 1543,49 | 82,96 | 189,5 |
| 7 | 112,26 | 1436,95 | 77,24 | 189,5 |
| 8 | 118,30 | 1324,69 | 71,20 | 189,5 |
| 9 | 124,66 | 1206,39 | 64,84 | 189,5 |
| 10 | 131,36 | 1081,74 | 58,14 | 189,5 |
| 11 | 138,42 | 950,38 | 51,08 | 189,5 |
| 12 | 145,86 | 811,96 | 43,64 | 189,5 |
| 13 | 153,70 | 666,11 | 35,80 | 189,5 |
| 14 | 161,96 | 512,41 | 27,54 | 189,5 |
| 15 | 170,66 | 350,45 | 18,84 | 189,5 |
| 16 | 179,84 | 179,79 | 9,66 | 189,5 |
| in total | 2000,05 | | 1031,95 | 3032 |

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|---------|--------|
| premium | 758,35 |
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