## **EXAM FM QUESTIONS OF THE WEEK**

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## Week of June 12/06

At an effective annual rate of interest of i, a payment of 100 right now combined with the present value of a payment of 100 to be made 3 years from know has same total present value right now as the present value now of a single payment of 190 to be made 1 year from now. Find i.

The solution can be found below.

## Week of June 12/06 - Solution

The equation of value as of now is  $100 + 100v^3 = 190v$ .

We use the cashflow worksheet of the BA II PLUS calculator to solve this by setting CFo=100, C01=-190, F01=1, C02=0, F02=0, C03=1000, F03=1. Then calculate IRR.

The resulting interest rate is 17.21%.