maturity in terms of the cashflows. For purposes of this determination, the yield to maturity is defined as the interest rate at which the present value of all amounts payable after the date of issue or acquisition is equal to the amount payable on that date
(6) The formulae and method for calculating the present value will depend on the nature of the financial arrangements and a number of alternatives will be published in Determination G10: Present Value Calculation Methods for this purpose.
(7) Persons may use either Determination G3: Yield to Maturity Method or this determination for the purpose of applying the yield to maturity method to a financial arrangement. Once the person has elected to use Determination G3: Yield to Maturity Method or this determination for a particular financial arrangement, the method set out in that determination shall be used by the person over the life of that financial arrangement, unless the prior consent of the Commissioner is obtained to change methods.
(8) At each balance date after the date of issue or acquisition, the present value of the arrangement is recalculated using the same formula and method as was used originally to calculate the yield to maturity.
(9) The amount of income derived or expenditure incurred by the holder or issuer in respect of the income year ending on that balance date will be-
(a) The present value at the balance date,
less (b) Any amounts payable by the holder or receivable by the issuer (as the case may be) during the income year,
plus (c) Any amounts payable by the issuer or receivable by the holder (as the case may be) during the income year,
less (d) The present value as the preceding balance date (or date of issue or acquisition if later).
In most normal commercial financial arrangements, the yield to maturity will be unique, positive and less than 100 percent per annum; arrangements that do not meet these criteria are excluded and may be submitted for individual consideration by the Commissioner.
2. Reference-This determination is made pursuant to section 64 E (1) (a) of the Income Tax Act 1976.
3. Scope of Application-This determination applies to the class of financial arrangements that has the following attributes-
(a) All amounts payable or receivable under the financial arrangement, and the dates on which those amounts are payable or receivable, are known not later than the first balance date of the issuer or holder following the date of issue or acquisition, as the case may be; and
(b) All amounts are determined in a single currency,
but does not apply to any financial arrangement in respect of which the annual yield to maturity rate as defined in clause 5 of this determination would be-
(a) Not unique; or
(b) Less than zero; or
(c) Greater than 100 percent.
4. Principle-The yield to maturity method apportions the total income or expenditure under a financial arrangement between income years so that the principal outstanding and accrued interest calculated as at any balance date represents the then present value of all amounts payable after that balance date, calculated in accordance with the formulae and method used to calculate the yield to maturity rate as at the date of issue or acquisition of the financial arrangement.
5. Interpretation-(1) In this determination, unless the context otherwise requires-
"Annual yield to maturity rate", in relation to a person and a financial arrangement, means the constant annual rate of
interest at which the present value of all amounts payable to and by the person after the date of acquisition or issue of the financial arrangement, calculated as at that date, is equal to the amount payable to or by the person on that date;
"Income year" has the same meaning as in sections 64B to 64m of the Act;
"Present value", in relation to a person and a financial arrangement and a day, means the discounted value on that day of all amounts payable to or by the person after that day, calculated in accordance with a formula and method specified in Determination G10: Present Value Calculation Methods, the amounts being discounted at a constant annual rate of interest; and for this purpose the present value of a financial arrangement shall be calculated using the annual yield to maturity rate in accordance with the formula and method used in the calculation of the annual yield to maturity rate of that financial arrangement.
(2) In this determination, unless the context otherwise requires, expressions used that are not defined in clause 5 (1) have the same meanings as in sections 2 and 64B to 64 m of the Income Tax Act 1976.
(3) Any reference in this determination to another determination made by the Commissioner shall be construed as referring to any fresh determination made by the Commissioner to vary, rescind, restrict, or extend that determination.
6. Method-(1) This determination may, at the election of the taxpayer, be used instead of Determination G3: Yield to Maturity Method. Once a taxpayer has made the election to use this determination to apply the yield to maturity method to a financial arrangement the taxpayer shall then apply this determination in respect of the financial arrangement until it matures or is remitted, sold or otherwise transferred by the taxpayer unless the prior consent of the Commissioner is obtained to change methods. Any such consent may be given conditionally.
(2) The amount of income derived or expenditure incurred by the holder or issuer in respect of any income year (other than an income year to which section 64F of the Income Tax Act 1976 applies) shall be-
(a) The present value of the financial arrangement as at the balance date on which the income year ends,
less (b) Any amounts payable by the holder or receivable by the issuer (as the case may be) during the income year.
plus (c) Any amounts payable by the issuer or receivable by the holder (as the case may be) during the income year,
less (d) The present value (if any) of the financial arrangement as at the balance date on which the immediately preceding income year ended.

## 7. Examples-(1) Example A

(a) This is the same example as in Determination G3: Yield to Maturity Method, used to demonstrate that the methods give similar results.

On 12 March 1987 a holder acquires for $\$ 1,012,500$ the right to receive the following income-

|  | $\$$ |
| :--- | ---: |
| 15 May 1987 | 70,000 |
| 15 November 1987 | 70,000 |
| 15 May 1988 | 70,000 |
| 15 November 1988 | $\underline{1,070,000}$ |
| $\$ 1,280,000$ |  |

The holder balances on 31 March. All amounts are in New Zealand currency.
It will be found that the annual yield to maturity rate $(\mathrm{R})$ is $16.2308 \%$ per annum; see Example A in Determination G10: Present Value Calculation Methods.

