Formula for Finding the Periodic payment(R), Given A:

$$R = A/(1 + (1 - (1 + (j/m))^{(j/m)})$$

Examples: Find the periodic payment of an annuity due of \$70000, payable annually for 3 years at 15% compounded annually.

$$R = 70000/(1 + [(1 - (1 + ((.15)/1))]^{(-(3-1))/((.15)/1))}$$

$$R = 70000/2.625708885$$

$$R = 26659.46724$$

Find the periodic payment of an annuity due of 250700, payablequarterlyfor8yearsat5 $R=250700/(1+(1-(1+((.05)/4))^(-(32-1))/((.05)/4))R=250700/26.5692901<math>R=9435.71$ 

## Break Even Analysis

The Break-Even Point can alternatively be computed as the point where Contribution equals Fixed Costs. The quantity, (P-V), is of interest in its own right, and is called the Unit Contribution Margin (C): it is the marginal profit per unit, or alternatively the portion of each sale that contributes to Fixed Costs.

# Break Even Analysis