

**Answer on Question #52879 – Math – Algebra**

**Question**

Solve the following formula for  $n$ :  $A = P(1 + nr)$

**Solution**

$$A = P(1 + nr)$$

Divide both sides by  $P$ :

$$1 + nr = \frac{A}{P}$$

Subtract 1 from both sides

$$nr = \frac{A}{P} - 1$$

Reduce the right-hand side to the common denominator:

$$nr = \frac{A - P}{P}$$

Divide both sides by  $r$ :

$$n = \frac{A - P}{rP}$$

**Answer:**  $n = \frac{A - P}{rP}$