

## Rearrange Formula

1. Rearrange each formula to solve for the specified variable. Assume no variable is equal to 0.

a) Given  $A = P(1 + rt)$ ,

i. Solve for  $P$ .

ii. Solve for  $t$ .

b) Given  $K = \frac{1}{2}mv^2$ ,

i. Solve for  $m$ .

ii. Solve for  $v$ .

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a) Given  $A = P(1 + rt)$ ,

i. Solve for  $P$ .

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

ii. Solve for  $t$ .

$$t = \left( \frac{A}{P} - 1 \right) \div r$$

b) Given  $K = \frac{1}{2}mv^2$ ,

i. Solve for  $m$ .

$$m = \frac{2K}{v^2}$$

ii. Solve for  $v$ .

$$v = \pm \sqrt{\frac{2K}{m}}$$