

### 3.12: Rearranging Formulae

Get each  $x$  by itself in the following equations:

$y = x + 2$	$y = 2x + 6$
$3y - 2x = 0$	$x + 2y - 5 = 0$

We can rearrange formulae in the same way

#### Examples:

Rearrange the following for the identified variable:

$\frac{P}{T} = k$ , solve for $T$	1. $Q = Av$ , solve for $v$
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$$F = \frac{mv^2}{r}, \text{ solve for } m$$

2.  $v = u + at$ , for T

$$s = ut + \frac{1}{2}at^2, \text{ for } u$$

3.  $F = \frac{mv - mu}{t}$ , for v

**Homework:** all questions on worksheet (B-20)