

Name : \_\_\_\_\_

## Rearranging Equations

Sheet 2

1)  $-\frac{3(g+h)}{k} = -g - \frac{h}{k}$

$g =$  \_\_\_\_\_

$h =$  \_\_\_\_\_

2)  $\sqrt{\frac{4s-9}{s-10}} = \sqrt{r-3}$

$r =$  \_\_\_\_\_

$s =$  \_\_\_\_\_

3)  $\frac{p}{2q} = 36$

$p =$  \_\_\_\_\_

$q =$  \_\_\_\_\_

5)  $6m = 5n\sqrt{x}$

$n =$  \_\_\_\_\_

$x =$  \_\_\_\_\_

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$\frac{v}{2} = c$

\_\_\_\_\_

\_\_\_\_\_

7)  $au^3 - 3bv^2 = bu^3 + 5av^2$

$u =$  \_\_\_\_\_

$v =$  \_\_\_\_\_

8)  $2x - t - 4m + n = 0$

$n =$  \_\_\_\_\_

$t =$  \_\_\_\_\_

## Rearranging Equations

1)  $-\frac{3(g+h)}{k} = -g - \frac{h}{k}$

$$g = \frac{2h}{k-3}$$

$$h = \frac{gk-3g}{2}$$

2)  $\sqrt{\frac{4s-9}{s-10}} = \sqrt{r-3}$

$$r = \frac{7s-39}{s-10}$$

$$s = \frac{39-10r}{7-r}$$

3)  $\frac{p}{2q} = 36$

$$p = \frac{72q}{\pm\sqrt{z^2+7}}$$

$$q = \frac{p}{72 \pm\sqrt{y^2-7}}$$

5)  $6m = 5n\sqrt{x}$

$$n = \frac{6m}{5\sqrt{x}}$$

$$x = \left(\frac{6m}{5n}\right)^2$$

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$$\pm\sqrt{z^2+7}$$

$$\pm\sqrt{y^2-7}$$

$$\frac{v}{2} = c$$

$$\frac{dw}{(9w-8d)}$$

$$\frac{18cw}{16c+w}$$

7)  $au^3 - 3bv^2 = bu^3 + 5av^2$

$$u = \sqrt[3]{\frac{5av^2 + 3bv^2}{a-b}}$$

$$v = \pm\sqrt{\frac{au^3 - bu^3}{5a+3b}}$$

8)  $2x - t - 4m + n = 0$

$$n = 4m + t - 2x$$

$$t = 2x - 4m + n$$