

Name : _____

Rearranging Equations

T2DS1

1) Solve $\sqrt{s} = 31t + \frac{27r}{2}$ for r .

2) Solve $\left(x + \frac{b}{10}\right)^2 = \frac{b^2 - 14c}{100}$ for x .

3) Solve $\frac{1}{\sqrt{11-d}}$

$-9 = 0$ for h .

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5) Solve $\frac{u^2}{4} - \frac{5v^3}{6} =$

$\left(\frac{7}{3}\right)^2 - 1$ for q .

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Answer key

Rearranging Equations

T2DS1

1) Solve $\sqrt{s} = 31t + \frac{27r}{2}$ for r .

$$r = \frac{2\sqrt{s} - 62t}{27}$$

2) Solve $\left(x + \frac{b}{10}\right)^2 = \frac{b^2 - 14c}{100}$ for x .

$$x = \frac{-b \pm \sqrt{b^2 - 14c}}{10}$$

3) Solve $\frac{1}{\sqrt{11-d}}$

$$d = \frac{11a + 41}{a + 5}$$

5) Solve $\frac{u^2}{4} - \frac{5v^3}{6} =$

$$u = \pm 2\sqrt{\frac{17v^3 + 6w^3}{6}}$$

$$q = \pm 3\sqrt{p^2 + 1}$$

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$-9 = 0$ for h .

$\left(\frac{q}{3}\right)^2 - 1$ for q .