

Name : _____

Rearranging Equations

T2DS3

1) Solve $\sqrt[3]{a} = 5zh + \frac{\sqrt[3]{a}}{6}$ for z .

2) Solve $9d^3 - k = 21d^3 - gk$ for k .

3) Solve $16 \left(\frac{pq}{q-2} \right)^2$

$\frac{6w}{v} = u + 49w^2$ for v .

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5) Solve $\sqrt{20(b - 3\sqrt{b})}$

$= \frac{4}{x^2}$ for m .

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Answer key

T2DS3

Rearranging Equations

1) Solve $\sqrt[3]{a} = 5zh + \frac{\sqrt[3]{a}}{6}$ for z .

$$z = \frac{\sqrt[3]{a}}{6h}$$

2) Solve $9d^3 - k = 21d^3 - gk$ for k .

$$k = \frac{12d^3}{g-1}$$

3) Solve $16 \left(\frac{pq}{q-2} \right)^2$

$$p = \pm \frac{9(q-2)}{8q}$$

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5) Solve $\sqrt{20(b-3\sqrt{c})}$

$$b = \frac{29c + 60\sqrt{c}}{5}$$

$\frac{6w}{x} = u + 49w^2$ for w .

$= \frac{4}{x^2}$ for m .

$$m = \pm \left(\frac{12}{x} \right)^3$$