Questions: Introduction to rearranging equations

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Summary

A selection of questions for the study guide on introduction to rearranging equations.

Before attempting these questions, it is highly recommended that you read Guide: Introduction to rearranging equations.

Q1

For each of the following equations, rearrange the equation for the variable given.

- 1.1. Rearrange x = a + 2b for a.
- 1.2. Rearrange x = a + 2b for b.
- 1.3. Rearrange x 2y + 4z = 4 for z.
- 1.4. Rearrange 5x 3y + 8z = -2 for x.
- 1.5. Rearrange 5x 3y + 8z = -2 for y.
- 1.6. Rearrange 5x 3y + 8z = -2 for z.
- 1.7. Rearrange $x^2 + y^2 = 4$ for x.
- 1.8. Rearrange $\frac{x^2}{4} + \frac{y^2}{16} = a$ for x.
- 1.9. Rearrange $\frac{x^2}{4} + \frac{y^2}{16} = a$ for y.
- 1.10. Rearrange $\sqrt{x^2 a^2} = y + 1$ for x.
- 1.11. Rearrange $\sqrt[3]{x^3 a^3} = y + 1$ for a.
- 1.12. Rearrange $\sqrt[3]{x^3 a^3} = y + 1$ for x.
- 1.13. Rearrange $x^4y^2=a^3+2bcd$ for d.
- 1.14. Rearrange $x^4y^2 = a^3 + 2bcd$ for a.
- 1.15. Rearrange $x^4y^2 = a^3 + 2bcd$ for x.
- 1.16. Rearrange $\frac{1}{x} + 45 = ly^2$ for x.

Q2

In Guide: Introduction to rearranging equations, you saw the expression

$$5x^3y^3 + \frac{6z}{w^4} = 4abc^2$$

where you rearranged this equation for x.

Rearrange this expression for every other variable a, b, c, y, z, w.

After attempting the questions above, please click this link to find the answers.

Version history and licensing

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