



$$\frac{a^2 - b^2}{a + b}$$

$$\frac{a + b}{a - b}$$

$$b - a$$

$$\frac{ab^2}{ab}$$

$$\frac{b(a - b)}{a(a - b)}$$

$$a^2 - b^2$$

$$a - b$$

$$a^2b$$

$$ab$$

$$\frac{a}{b}$$

$$\frac{(a - b)^2}{a - b}$$

$$\frac{a^2b^3}{ab}$$

$$a^2 + b^2$$

$$\frac{a^2b^2}{a^2b}$$

$$a + b$$

$$\frac{b^2 - a^2}{a + b}$$



$$\frac{b}{a}$$

$$a + b$$

$$\begin{aligned} & a - b \\ & -(a - 2b) \end{aligned}$$

$$\frac{a^2b}{ab}$$

$$\begin{aligned} & a(a + b) \\ & + b(b - a) \end{aligned}$$

$$\begin{aligned} & \frac{a^3b^2}{ab} \\ & b \end{aligned}$$

$$\frac{a^3b^2}{a^2}$$

$$\frac{a^2b}{ab^2}$$

$$\begin{aligned} & b - a \\ & a(a - b) \\ & + b(a - b) \end{aligned}$$

$$\begin{aligned} & a(2a + b) \\ & - 2a^2 \end{aligned}$$

$$\frac{(a - b)^3}{(a - b)^2}$$

$$\begin{aligned} & a(b + 1) \\ & - ab \end{aligned}$$

<https://nrich.maths.org/problems/simplifying-doughnut>
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