

1. Simplify fully:

$$a^2 \times a^3$$

$$b^3 \times b^4$$

$$a^1 \times a^0$$

$$b^0 \times b^0$$

$$x^3 \times x^{-1}$$

$$y^6 \times y^{-2}$$

2. Simplify fully:

$$a^2 \times a^b$$

$$b^3 \times b^c$$

$$a^x \times a^0$$

$$b^t \times b^c$$

$$x^{2y} \times x^{-1}$$

$$y^{3w} \times y^{-2}$$

3. Simplify fully:

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

$$b^{3c} \times b^c$$

$$a^x \times a^{4x}$$

$$b^t \times b^{5t}$$

$$x^{2y+1} \times x^{3y-1}$$

$$y^{3w+3} \times y^{2w-2}$$

4. Simplify fully:

$$a^2 \div a^1$$

$$b^3 \div b^2$$

$$a^6 \div a^4$$

$$b^5 \div b^5$$

$$\frac{x^2}{x^3}$$

$$\frac{y^{13}}{y^2}$$

5. Simplify fully:

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

$$b^{3c} \div b^c$$

$$a^x \div a^{4x}$$

$$b^t \div b^{5t}$$

$$x^{2y+1} \div x^{3y-1}$$

$$y^{3w+3} \div y^{2w-2}$$

6. Simplify fully:

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

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

$$\frac{a^x}{a^{5x}}$$

$$\frac{b^{2t}}{b^{5t}}$$

$$\frac{x^{2y+1}}{x^{4y-1}}$$

$$\frac{y^{3w-3}}{y^{2w-2}}$$