

Multiplying Rational Expressions

Simplify each expression.

1. $\frac{2a}{3b} \cdot \frac{ab}{2c}$

2. $\frac{2x}{3y} \cdot \frac{xy^2}{2z}$

3. $\frac{3x}{2ab} \cdot \frac{ab}{3ca}$

4. $\frac{2a}{3b} \cdot \frac{ab}{2ba^2}$

5. $\frac{2a}{3b} \cdot \frac{2b}{3c}$

6. $\frac{2a}{3} \cdot \frac{3a}{2b}$

7. $\frac{2(a+b)}{3a} \cdot \frac{ab}{2(a-b)}$

8. $\frac{2a^2(b+c)}{3a-2(b+c)} \cdot \frac{a-b}{(a-b)(b+c)}$

9. $\frac{2(a+b)}{3} \cdot \frac{a-b}{2(a-b)}$

10. $\frac{2(a+b)}{a+b} \cdot \frac{ab}{2(a-b)}$

11. $\frac{2(a+b)}{3a} \cdot \frac{a}{2(a+b)}$

12. $\frac{(a+b)(a-b)}{a-b} \cdot \frac{1}{(a-b)(a-b)}$

13. $\frac{1}{a+b} \cdot \frac{2(a+b)}{a-b}$

14. $\frac{2a}{2a^2+ab^2} \cdot \frac{2a-b}{3a}$