



基本功专项训练(十二) 分式的混合运算



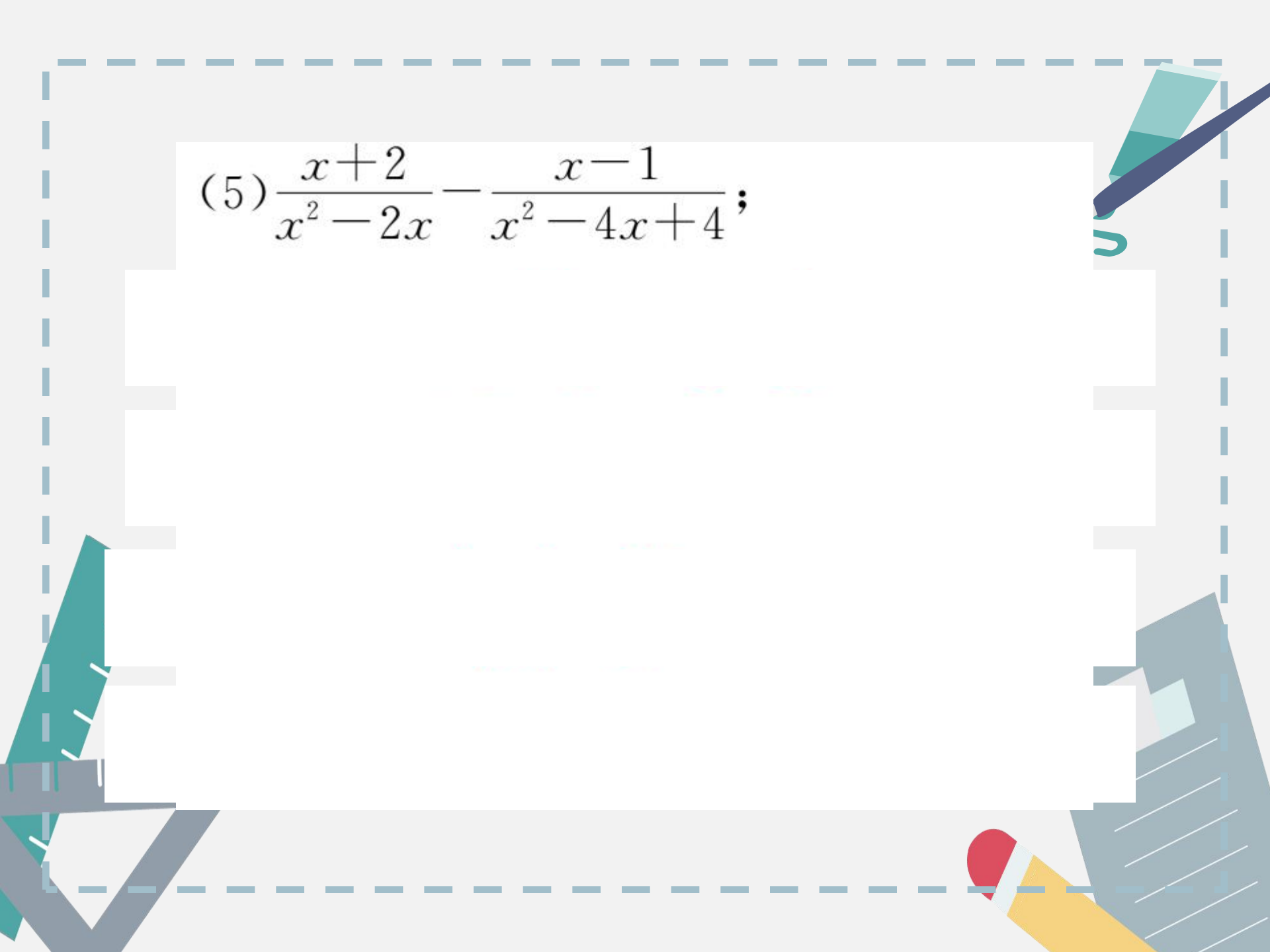
计算：

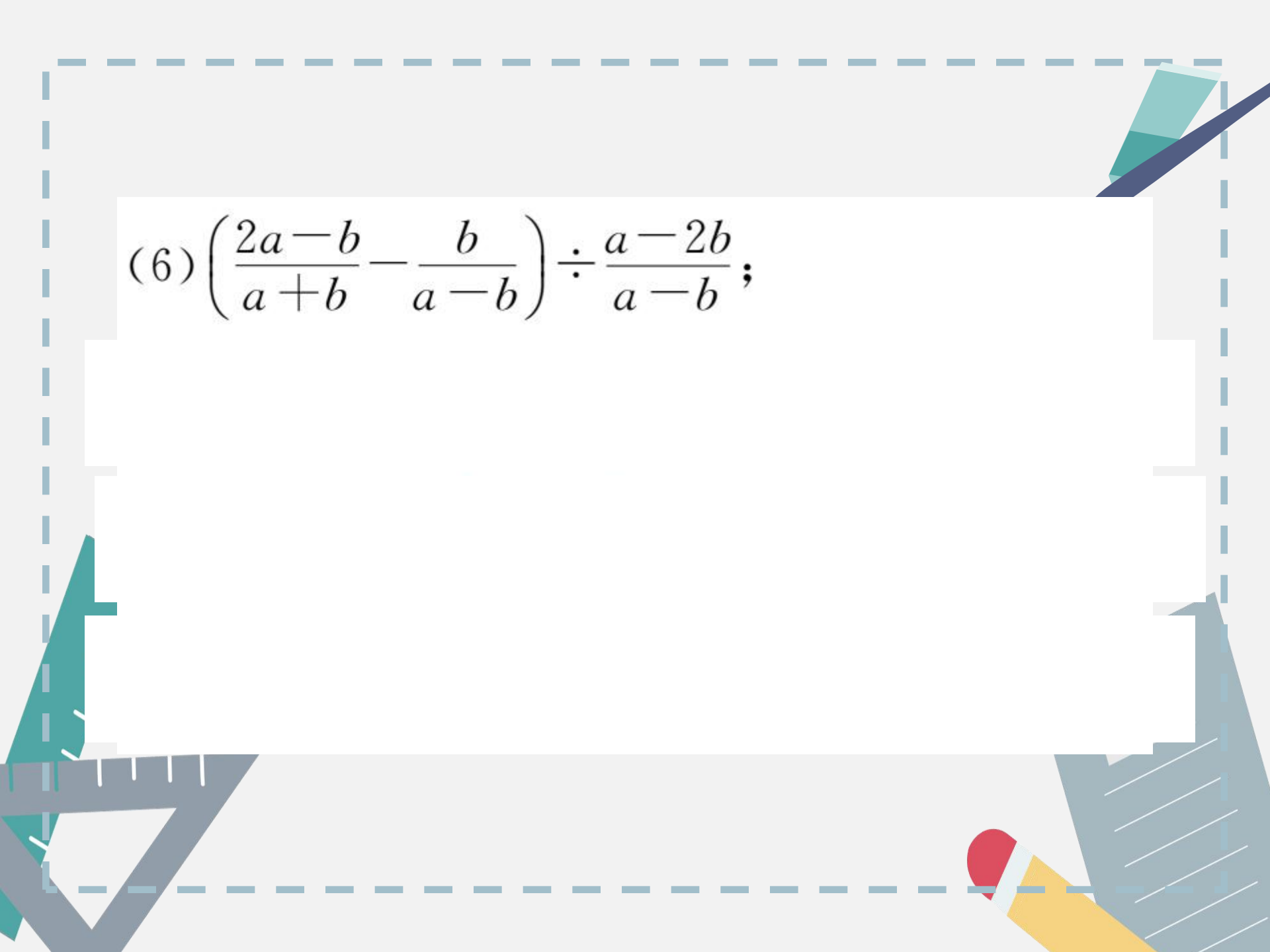
$$(1) \left(\frac{-3x^4y^2}{2z} \right)^3;$$

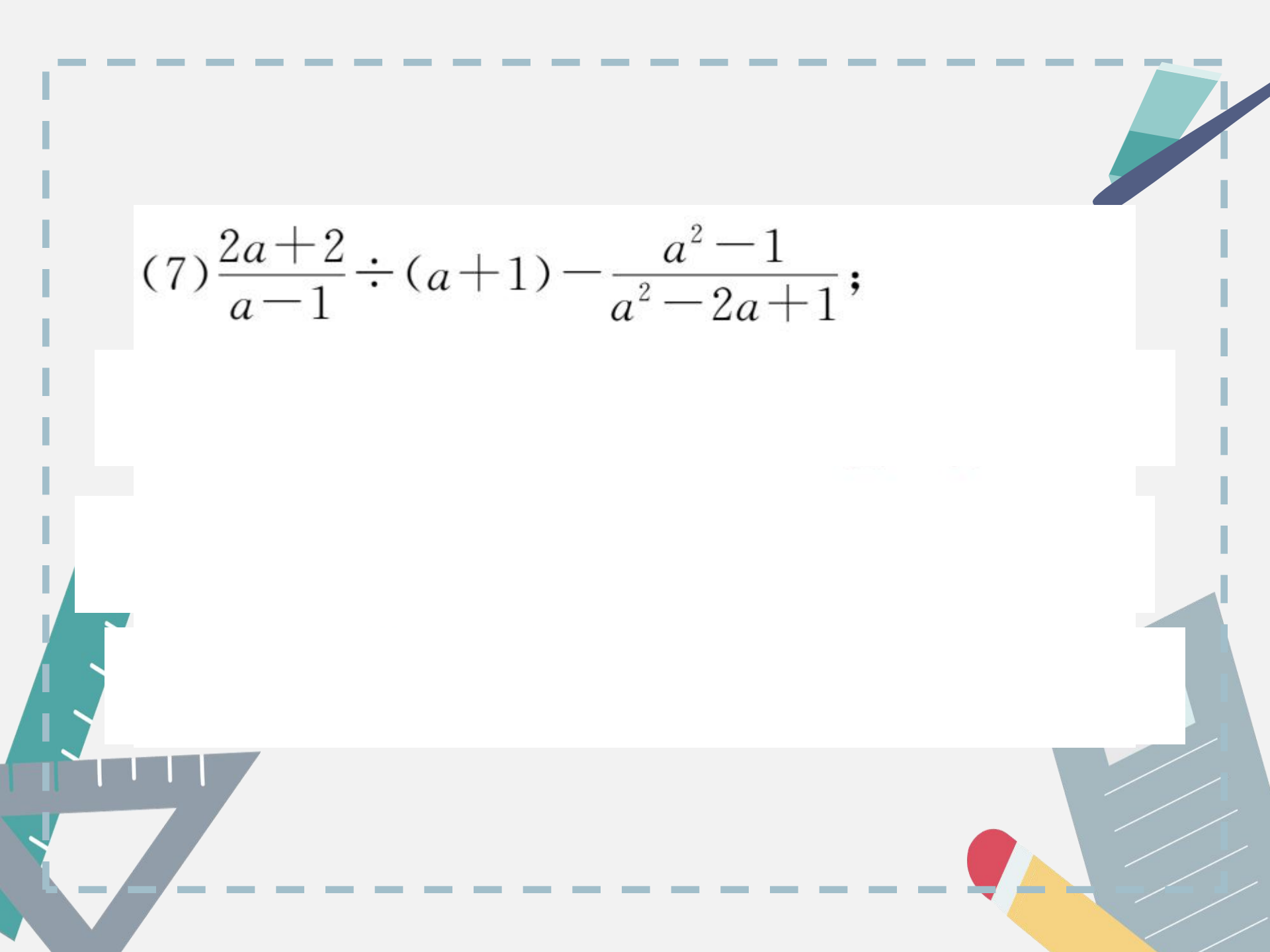
$$(2) \frac{2x^2y}{3mn^2} \cdot \frac{5m^2n}{4xy^2} \div \frac{5xym}{3n};$$

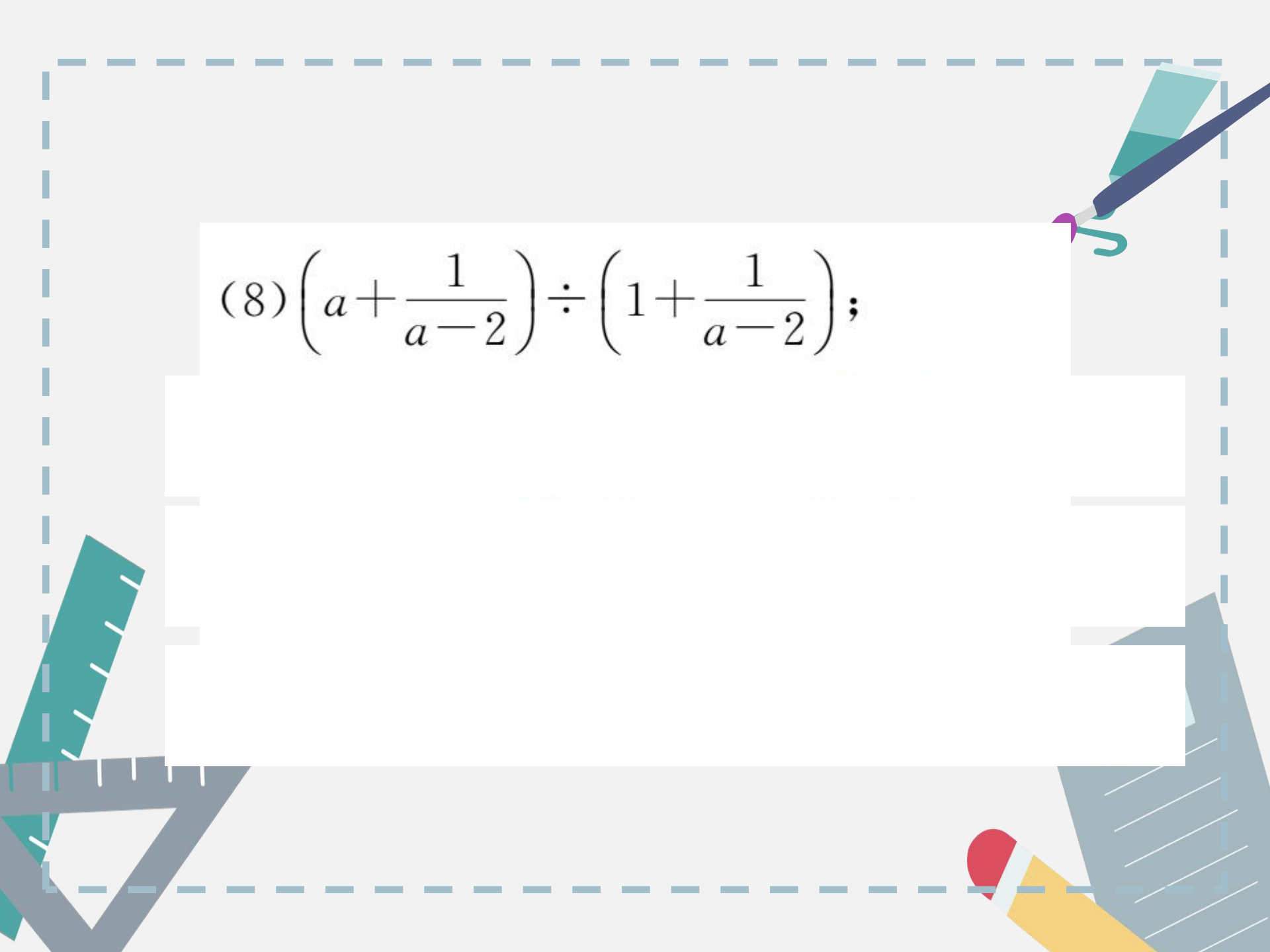
$$(3) \frac{3x}{4x-3} \div \frac{2}{16x^2-9} \cdot \frac{x}{4x+3};$$

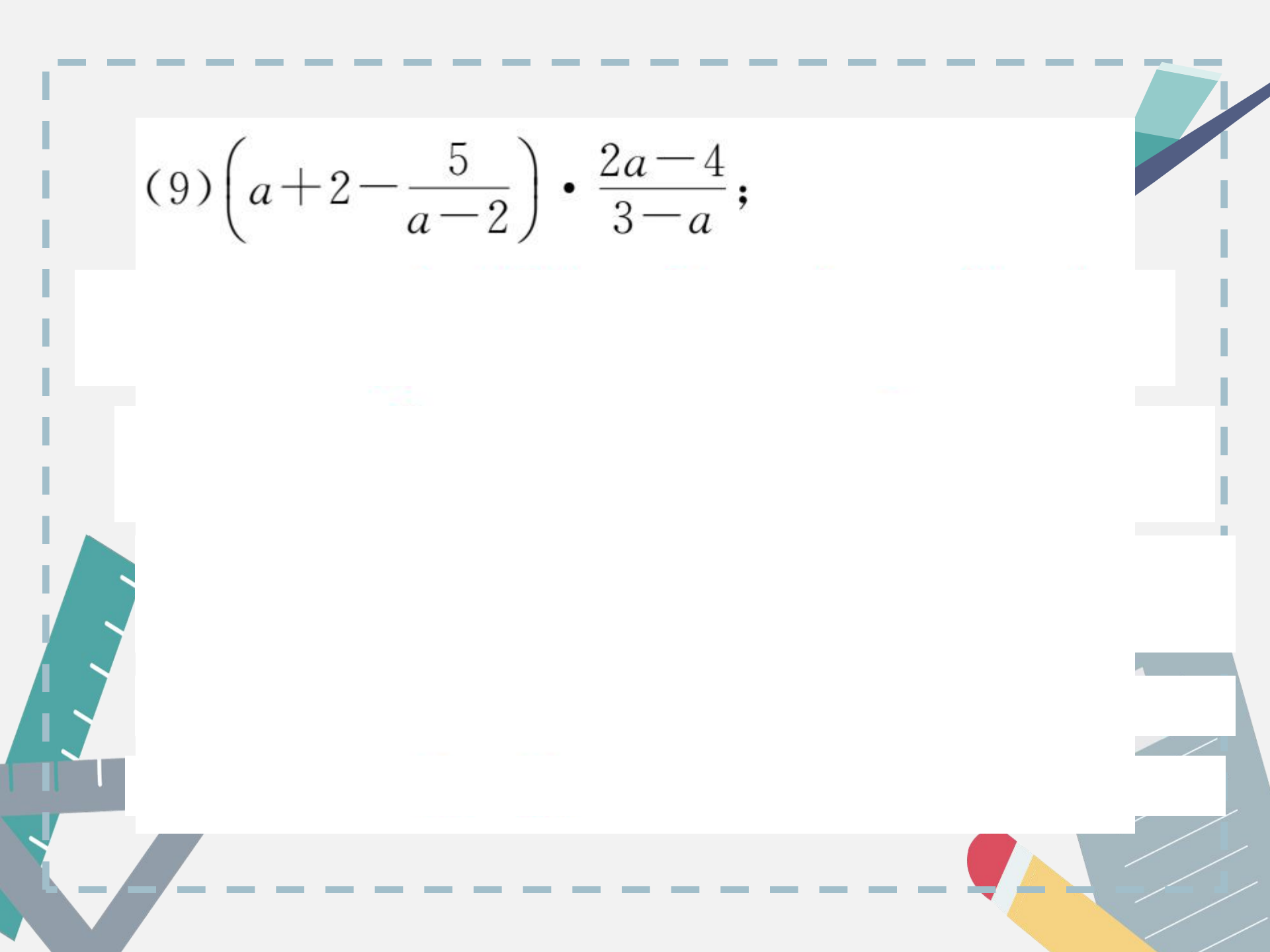
$$(4) \left(\frac{a^2b}{-c}\right)^3 \cdot \left(\frac{c^2}{-ab}\right)^2 \div \left(\frac{bc}{a}\right)^4;$$

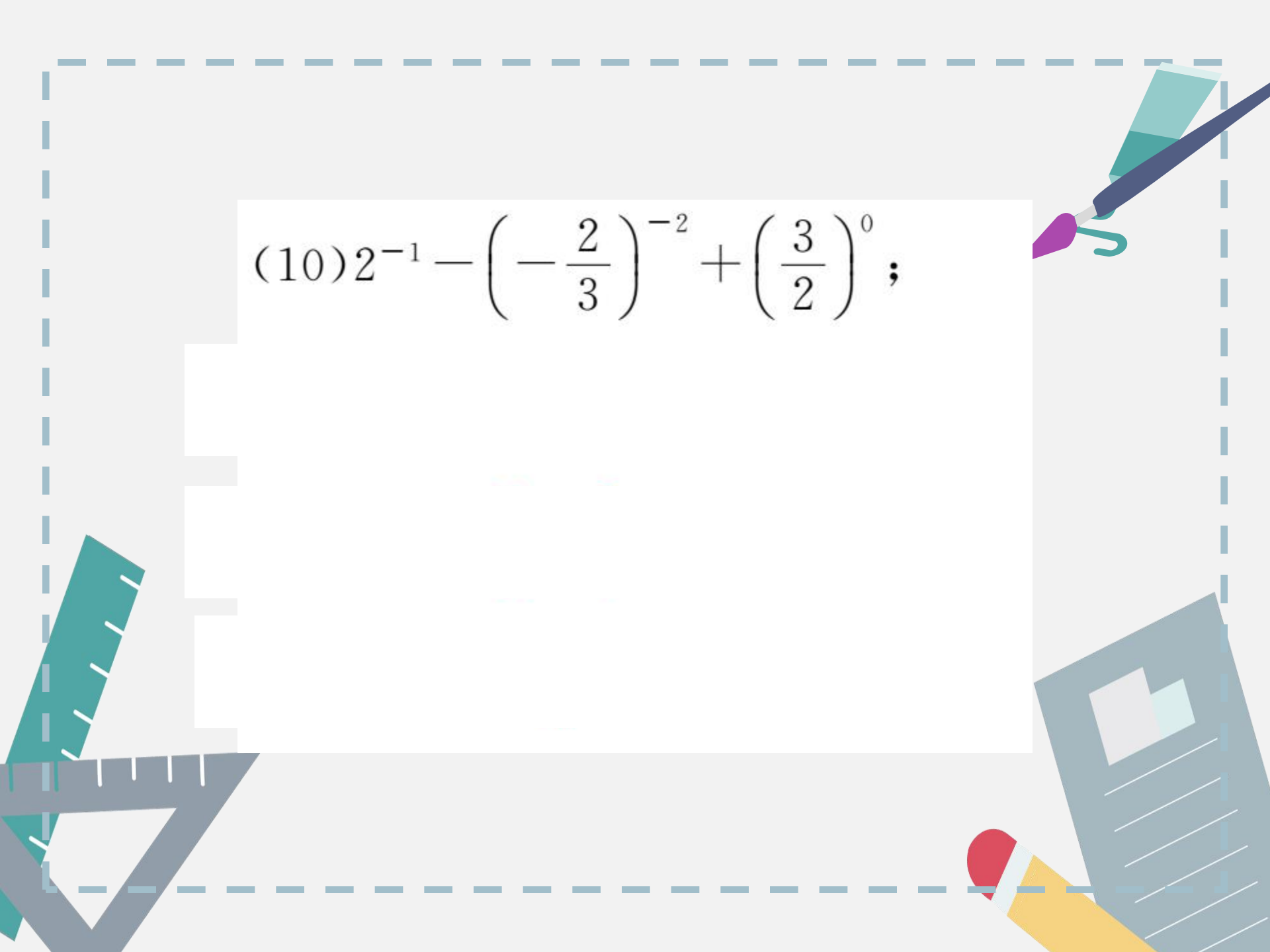

$$(5) \frac{x+2}{x^2-2x} - \frac{x-1}{x^2-4x+4};$$

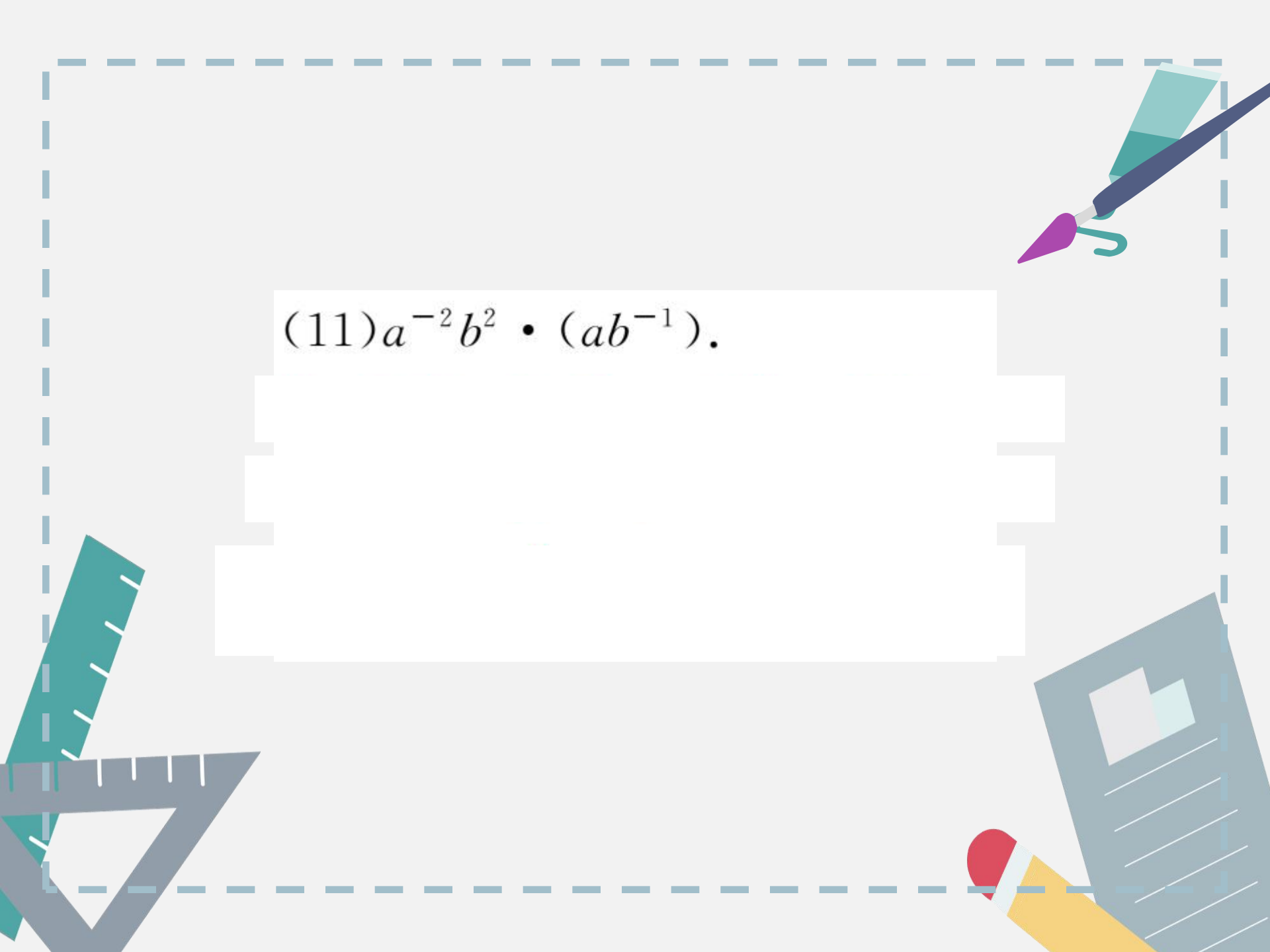

$$(6) \left(\frac{2a-b}{a+b} - \frac{b}{a-b} \right) \div \frac{a-2b}{a-b};$$


$$(7) \frac{2a+2}{a-1} \div (a+1) - \frac{a^2-1}{a^2-2a+1};$$


$$(8) \left(a + \frac{1}{a-2} \right) \div \left(1 + \frac{1}{a-2} \right);$$


$$(9) \left(a + 2 - \frac{5}{a-2} \right) \cdot \frac{2a-4}{3-a};$$


$$(10) 2^{-1} - \left(-\frac{2}{3}\right)^{-2} + \left(\frac{3}{2}\right)^0 ;$$


$$(11) a^{-2} b^2 \cdot (ab^{-1}).$$