

It appears that you took the roots of the constants 36 and 27, but not of the variable factors. First rewrite using fractional exponents, then apply the laws of exponents:

$$\frac{s^3(36r^9s^4)^{\frac{1}{2}}}{4s(27r^{12})^{\frac{1}{3}}} = \frac{s^3 \cdot (6^2)^{\frac{1}{2}} \cdot r^{\frac{9}{2}} \cdot s^{\frac{4}{2}}}{4 \cdot s \cdot (3^3)^{\frac{1}{3}} \cdot r^{\frac{12}{3}}}$$

Simplify exponents and calculate the roots of the constants.