

Algebra / Simplifying a ratio of univariate monomials

Look at the numbers and variables separately. Simplify the numbers by dividing 8 and 32 each by 8 and then look at the y. You have 2 y's on top and 3 y's on the bottom, so you have one extra y on the bottom.

Simplifying a ratio of univariate monomials

Simplify:

$$\frac{8y^2}{32y^3}$$

$\frac{8}{32} \frac{y^2}{y^3}$

$\frac{1}{4} y$

Note: The Solve feature is not available to students.

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$$\frac{4w^5}{36w^4}$$

$$\frac{4 \div 4}{36 \div 4} \frac{w w w w w}{w w w w w} = 1 \text{ extra on top}$$

$$\frac{1w}{9} = \boxed{\frac{w}{9}}$$

$$\frac{24w^3}{64w^5}$$

$$\frac{24 \div 8}{64 \div 8} \frac{w w w}{w w w w w w} = 2 \text{ extra on bottom}$$

$$\boxed{\frac{3}{8w^2}}$$

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