
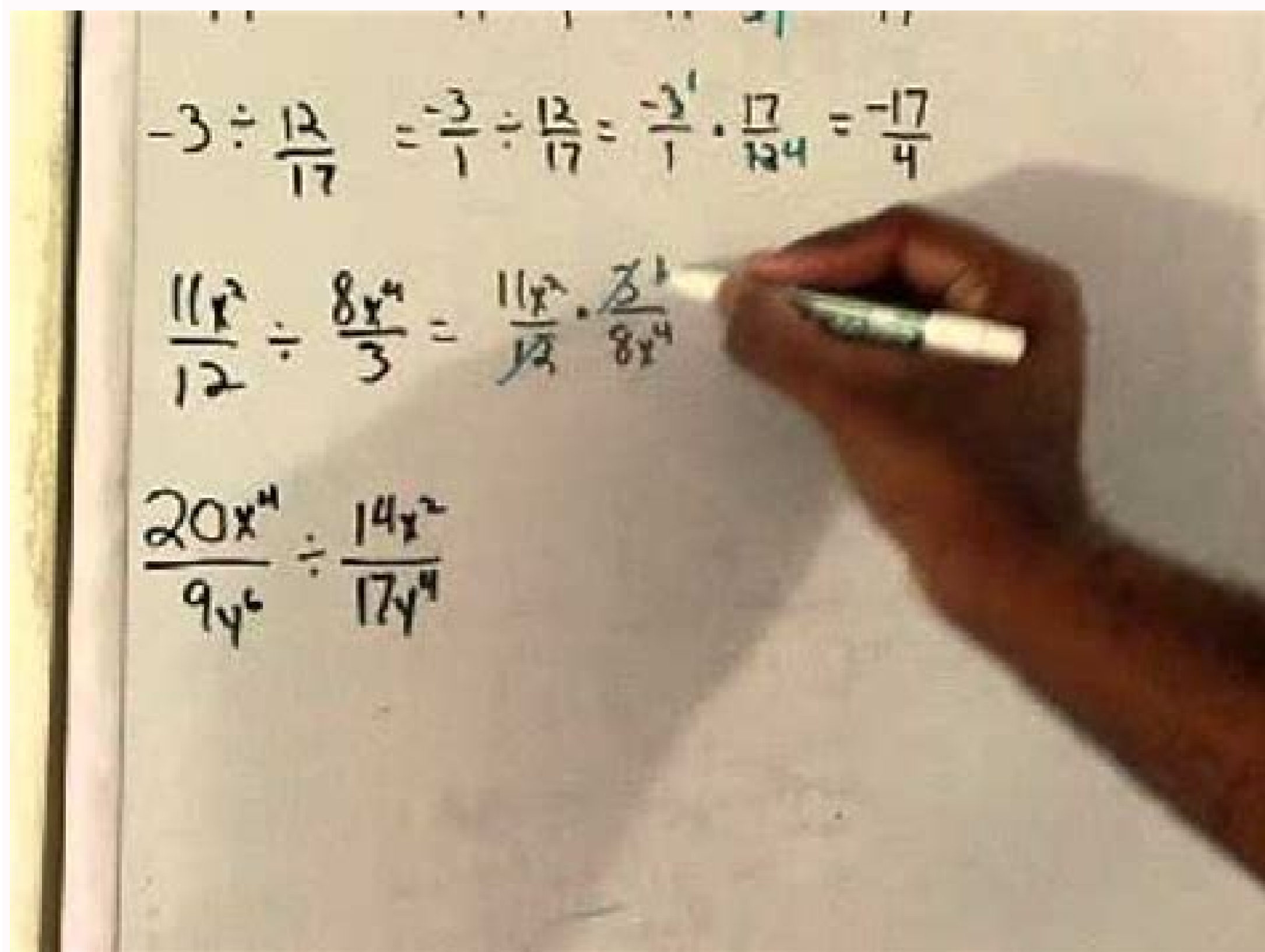


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Open



$$\frac{x^2 - 2x + 1}{x} \div \frac{x + 1}{x^2 - 1} = \frac{x^2 - 2x + 1}{x} \times \frac{x^2 - 1}{x + 1}$$

$$= \frac{(x - 1)^2 (x + 1)(x - 1)}{x(x + 1)}$$

$$= \frac{(x - 1)^2 (x - 1)}{x}$$

$$= \frac{(x - 1)^3}{x}$$



Example 3: Divide $x^3 - 4x^2 + 6x - 4$ by $x - 2$

$$\begin{array}{r} x^2 - 2x + 2 \\ x-2 \overline{) x^3 - 4x^2 + 6x - 4} \\ \underline{-(x^3 - 2x^2)} \\ 2x^2 + 6x \\ \underline{-(2x^2 + 4x)} \\ 2x - 4 \\ \underline{-(2x - 4)} \\ 0 \end{array}$$

Side note: If a term is missing, like $x^2 - 4$ (the x -term is missing) then rewrite as $x^2 + 0x - 4$

SWIMMING STEPS

Coach RJ is here to teach you the steps on how to swim properly. Identify the step that is being shown through the solution. Write the step in your own words.

Given: $3 \frac{2}{4} \div \frac{2}{6}$

1. $\frac{14}{4} \times \frac{6}{2} = \frac{84}{8}$

2. $\frac{84}{8} = 10 \frac{4}{8} = 10 \frac{1}{2}$

3. $\frac{14}{4} \div \frac{2}{6} = \frac{14}{4} \times \frac{6}{2}$

4. $3 \frac{2}{4} \div \frac{2}{6} = \frac{14}{4} \div \frac{2}{6}$

Dividing Mixed Numbers by Fraction

