

* Add: $\frac{5}{18m^5n} + \frac{7}{12m^3n^2}$

① find LCM of $18m^5n$ and $12m^3n^2$

$$\begin{array}{c} \textcircled{2} \uparrow 9 \\ \textcircled{3} \textcircled{3} \end{array}$$

$$2 \cdot \textcircled{3}^2 \cdot \textcircled{m}^5 \cdot n$$

$$\begin{array}{c} \textcircled{3} \uparrow 4 \\ \textcircled{2} \textcircled{2} \end{array}$$

$$\textcircled{2}^2 \cdot \textcircled{3} \cdot \textcircled{m}^3 \cdot \textcircled{n}^2$$

$$\text{LCM} = \frac{2^2 \cdot 3^2 \cdot m^5 \cdot n^2}{4 \cdot 9} = \boxed{36m^5n^2}$$

② Rewrite each fraction using LCD

$$\frac{\textcircled{5}}{\textcircled{18m^5n}} \cdot \frac{\textcircled{(2n)}}{\textcircled{(2n)}} + \frac{\textcircled{7}}{\textcircled{12m^3n^2}} \cdot \frac{\textcircled{(3m^2)}}{\textcircled{(3m^2)}}$$

$$\frac{10n}{36m^5n^2}$$

$$+ \frac{21m^2}{36m^5n^2}$$

$$\boxed{\frac{10n + 21m^2}{36m^5n^2}}$$

← can we factor

~~simplify~~

No simplifying possible