

3rd

exercice:

$$\begin{aligned}
 1. \quad \sqrt{23.361} &= \sqrt{2336.1 \times 10^{-2}} \\
 &= \sqrt{\left(\frac{2336}{10} + \frac{1}{9}\right) \times 10^{-2}} \\
 &= \sqrt{\frac{21025}{9 \times 10^2}} \\
 &= \sqrt{\frac{21025}{900}} \\
 &= \sqrt{\frac{841}{36}}
 \end{aligned}$$

$$\sqrt{23.361} = \left(\frac{29}{6}\right) \text{ (Pre)}$$

2. $\frac{7 \times \sqrt{3^4 \times (6^2 \times 3)^3}}{\sqrt{5 \times 3 \times 3^2 \times 6^4}}$ = ~~numbers~~ ~~cancel~~ ~~clear~~ $\frac{7 \times \sqrt{3^4 \times 6^6}}{5 \times 3^2 \times 6^4} = \frac{14}{5}$

3. $A = \frac{29}{6} \times 5 + \frac{14}{5} \times 6 = \frac{145 + 84}{30} = \frac{229}{30}$

~~$A = \frac{151}{30}$~~

~~$A^{-2} = \left(\frac{151}{30}\right)^{-2}$~~

~~$A = 5.0333$~~

~~$= \frac{30^2}{151^2}$~~

$$A^{-2} = \left(\frac{229}{30}\right)^{-2}$$

$$= \frac{30^2}{229^2}$$

$$= \frac{900}{52441}$$

$$= 0.01716$$

$$= 1.716 \times 10^{-2}$$

$A^{-2} = 0.01716$

$A^2 = 1.716 \times 10^{-2}$

~~$A^{-2} = \frac{229^2}{30^2}$~~

~~$= 0.0394$~~

~~$A^{-2} = 3.94 \times 10^{-2}$~~

~~scientific notation~~

scientific notation. P.Y.