## Unit 4： $1 / 31 / 17$ or $2 / 1 / 17$

1．Review of Properties of Exponents
2．Simplifying Expressions
3．Converting between Rational and Exponent Form）

Properties of Exponents
Let $a$ and $b$ be real numbers and let $m$ and $n$ be integers．
Product of Powers Property Power of a Power Property
Power of a Product Property Negative Exponent Property Zero Exponent Property Quotient of Powers Property
Power of a Quotient Property $\quad \begin{array}{ll}a^{*} \\ \left(\frac{a}{b}\right)^{-}=\frac{a^{*}}{b^{*}} & b \neq 0\end{array}$

| Proerise of Emom | monest wortseat | － |
| :---: | :---: | :---: |
| \％ | 2 cos | $2{ }^{8}$ |
| －（3） | － | $\cdots$－（9） $0^{\prime}$ |
| sumber |  | 2，（eses） |
| ${ }^{10} \frac{5}{4}$ | ${ }^{\frac{1}{x}}$ | $0 \frac{1}{x}$ |
|  | ${ }^{2}(2 \times x)$ | max $(x)$ |
| 的为 | \％ $2 \times$ xer | \％anat |
| 5）$\frac{4}{4}$ | 20．娞 | ${ }^{3} \times(x)$ |
| $22(10 \times 5)$ |  |  |
| 50 |  |  |





| Dose |  |  |
| :---: | :---: | :---: |
|  |  |  |
| $\begin{gathered} 201 \\ =\sqrt{28} \\ =\sqrt{4} \sqrt{1} \\ =\sqrt{2,7} \end{gathered}$ | $22^{\frac{1}{4}}=\begin{aligned} & =\sqrt[3]{2^{2}} \\ & \sqrt[3]{2 \sqrt{2} \sqrt{2}} \end{aligned}$ |  |
| $\begin{array}{r} 4(8 x,)^{2}-\sqrt[n]{25 x} x \\ \cdot\left[\frac{4 \sqrt{x}]}{}\right. \end{array}$ |  |  |
|  |  |  |
|  |  |  |
|  |  | $\begin{aligned} 30 \cdot\left(\frac{\pi}{3}\right)^{1} & =2\left(\frac{1}{1}\right)^{1 / 4} \\ & =2\left(\frac{1}{1 / 2}\right. \\ & =1)^{1} \end{aligned}$ |
|  |  |  |
| $\begin{array}{r} 20 \cdot \frac{18}{60^{\circ}}=\frac{10}{10^{40}}=1 k^{14} \\ \sqrt{24} \end{array}$ |  |  |

