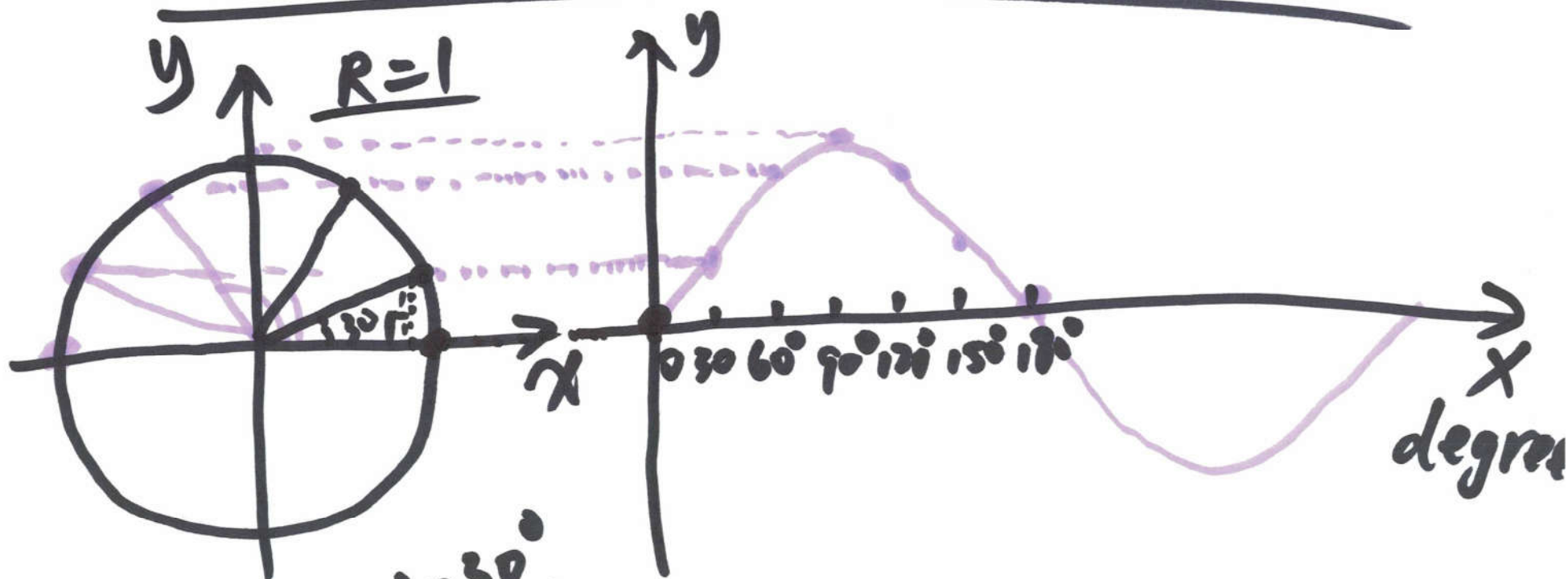


Unit Circle



$$y = R \cdot \sin 30^\circ = \sin 30^\circ$$

$$x = R \cdot \cos 30^\circ = \cos 30^\circ$$

(x_0, y_0)

R

$$x^2 + y^2 = 1$$

$$\left(x - \frac{x_0}{0}\right)^2 + \left(y - \frac{y_0}{0}\right)^2 = \frac{R^2}{1}$$

①

0.046

4.6 $\times 10^2 \rightarrow$ scientific notation

7.90 $\rightarrow 7.9$

7.89

128.0 \rightarrow 128.14
128.0 \rightarrow 128.05

(2)

① 801.00 in scientific notation (SN)
 8.0100×10^2

② Round 63.885 to 3 significant
Digits
(SD)
63.9

③ Round 100.003 to 5. SD.

100.00

④ How many SD in 8.3885×10^3 ?

5

~~1000~~

⑤

⑤ How many SD in following nos

$$0.0000926 \rightarrow 3$$

$$\overline{0807008.00} \rightarrow 8$$

$$\frac{5001.030}{4} \rightarrow 7$$

⑥ Calculate and use the correct SD.

$$① 4.030 \times \underline{3.00} = 12.09 \rightarrow 12.1$$

$$② 2.0 \times 5.00 = 10 \rightarrow 10.$$

④

$$\textcircled{3} \quad 48.32/5. = 9.664 = \cancel{10^1} \times 1. \times 10^1$$

$$\textcircled{4} \quad 36.37/8. = 4.54625 = 5.$$

$$\textcircled{5} \quad 32. + 25.3 + 42.311$$

$$= 99.611 = 100. = 1. \times 10^2$$

$$\textcircled{6} \quad 32.00 - \underline{15.5} + 3.50 = 20$$

$$= 20.0$$

$$= 2.0 \times 10^1$$

5