

①  $P: n \in [0, 4] \rightarrow \{0, 1, 2, 3, 4\}$

$Q: y$  is a rational no

$R: z^2 > z \rightarrow T$

$P$  and  $[Q \text{ or } \text{not } R]$

①

$n=2 \checkmark$

$y = \pi x$

$z = 0.5 \checkmark$

②

$n=3 \checkmark$

$y = e^x$

$z = 2x$

③

$n=5x$

$y=3 \checkmark$

$z=2x$

④

$n=3.5 \checkmark$

$y = \frac{\pi}{2} x$

$z = 1x$

⑤

$n=6x$

$y=3 \checkmark$

$z = \pi \checkmark$

②

$P: n$  is irrational

$Q: n^2$  is an int

$R: n^4$  is rational

$P \text{ or } [\text{not } Q \text{ and } R]$

is false

$\downarrow$

$F$

$F \leftarrow$

①

$n=0.5$

$P = \checkmark$

$Q = \checkmark$

$R = \checkmark$

②

$n=4$

$P = \checkmark$

$Q = \checkmark$

$R = \checkmark$

③

$n=1.414$

$P = \checkmark$

$Q = \checkmark$

$R = \checkmark$

④

$n=\pi$

$P = \checkmark$

$Q = \checkmark$

$R = \checkmark$