

p472 1-7, 13-36, 65, 67, 68, 70

① $8^3 = 512$

② $5^4 = 625$

③ $\log_{11} 1331 = 3$

④ $\log_{16} 8 = \frac{3}{4}$

⑤ 2

⑥ -7

⑦ 0

⑬ $2^4 = 16$

⑭ $7^3 = 343$

⑮ $9^{-2} = \frac{1}{81}$

⑯ $3^{-3} = \frac{1}{27}$

⑰ $12^2 = 144$

⑱ $9^0 = 1$

⑲ $\log_9 \frac{1}{9} = -1$

⑳ $\log_6 \frac{1}{216} = -3$

㉑ $\log_2 256 = 8$

㉒ $\log_4 4096 = 6$

㉓ $\log_{27} 9 = \frac{2}{3}$

㉔ $\log_{25} 125 = \frac{3}{2}$

㉕ -2

㉖ -3

㉗ 3

㉘ 3

㉙ $\frac{1}{3}$

㉚ $\frac{1}{5}$

㉛ $\frac{1}{2}$

㉜ $\frac{1}{2}$

㉝ -5

㉞ -3

㉟ 4

㊱ 3

㊲ No

㊳ $2W \cdot W = A$

$A = 2W^2$

$A = 2(3)^2$

㊴ $x + .40x = 70$

$1.40x = 70$

$x = 50$ (G)

㊵ $6x - 3y = 30$ $4x = 2 - y$ $A = 18$ (D)

$6x - 3(-4x + 2) = 30$ $y = -4x + 2$ $A = 18$ (D)

$6x + 12x - 6 = 30$ $y = -8 + 2 = -6$

$18x = 36$

$x = 2$ (A)

$2 - 6 = -4$