

PC Sec 3-2 p. 152 (1-15a)

① $(-1, 1)$ ② $(-12, -10)$ ③ $(\rho + a, \phi + b)$

④ $(1-3, -2+4) \Rightarrow (-2, 2)$

⑤ $(r-3, s+4)$ ⑥ D

⑦ a) $(1,1) \rightarrow (4,5)$ $(-1,-1) \rightarrow (2,3)$ $(0.5, 2) \rightarrow (3.5, 6)$

b) $5-4 = \frac{1}{4-3}$ $3-4 = \frac{1}{2-3}$ $6-4 = \frac{1}{3.5-3}$

$1 = +$ $-1 = \frac{1}{-1}$ $2 = \frac{1}{\frac{1}{2}}$

$1 = 1 \checkmark$ $-1 = -1 \checkmark$ $2 = 2 \checkmark$

⑧ a) $T(x, y) = (x-1, y+3)$

b) $(9,3) = (9-1, 3+3) = (8,6)$

c) $g(x) = \sqrt{x+1} + 3$

⑨ $y = |x+4| + 6$

⑩ a) $T(x, y) = (x+2, y)$

b) on $c = 1c$

⑪ a) $T(x, y) = (x-2, y+1)$

b) on $c = 1c$

⑫ a) on $c = 1c$

b) $x = -3$ $y = -2$
 ↓ ↓
 original AJP original BJP
 left 3 right 2

c) $f(x) : D: 2x+1 \neq 0 \quad R: |y| \neq 0^3$

$g(x) : D: 2x+1 \neq -3 \quad R: |y| \neq -2^3$

⑬ $h = 5$ $k = -2$ $(-2, 2) \xrightarrow[-2]{+5} (3, 5)$

⑭ C

⑮ a) $N = 0.82(1.07)^{107} = \$8,288,000,000,000$