13. Evaluate the expression

$$\frac{\begin{vmatrix} a & 0 & b \\ 0 & 1 & 0 \\ b & 0 & a \end{vmatrix}}{\begin{vmatrix} a & 2 & -b \\ 0 & 1 & a \\ b & 0 & a \end{vmatrix}}$$

(1) $\dfrac{a+b}{a-b}$ (3) $\dfrac{a^2-b^2}{a^2+2ab+b^2}$ (5) 1

(2) $\dfrac{a^2-b^2}{a^2+b^2}$ (4) $\dfrac{a-b}{a^2+ab+b^2}$

14. Solve for x and y:

$4(12x - 13y + 4) = 5(6x + 5y - 5)$
$3(3x + 2y + 6) = 2(8x - y + 6)$

the value of x lies in the range
(1) $-2 \leqq x < 0$. (3) $2 \leqq x < 4$. (5) $6 \leqq x < 8$.
(2) $0 \leqq x < 2$. (4) $4 \leqq x < 6$.

15. The value of y in Question 14 lies in the range
(1) $-2 \leqq y < 0$. (3) $2 \leqq y < 4$. (5) $6 \leqq y < 8$.
(2) $0 \leqq y < 2$. (4) $4 \leqq y < 6$.

16. Solve for x and y:
$11(10y - 60x) = -30(68 + 2x + 5y)$
$2(24 - 96x - 48y) = -35(18 - x + 6y)$

The value of x lies in the range (Choose your answer from the choices given for Question 14.).

17. The value of y in Question 16 lies in the range (Choose your answer from the choices given for Question 15.).