(1)
$$-4 \le y \le -2$$
. (3) $0 \le y \le 2$.

(3)
$$Q \leq y \leq 2$$

$$(2) -2 \leq y \leq 0.$$

$$(4) \ 2 \leq y \leq 4.$$

4. The value of z in Question 2 lies in the range

(1)
$$-4 \le z \le -2$$
.

(3)
$$0 \le z \le 2$$
.

$$(2) -2 \leq z \leq 0$$

$$(2) -2 \le z \le 0. \qquad (4) \ 2 \le z \le 4.$$

5. Given the equation

$$\frac{y-x}{6} - \frac{3x-y}{9} = 4 - \frac{x+2y}{4} + \frac{x+4y}{12}$$

g(y) is

(1)
$$0.632x + 12$$
.

(3)
$$1.333y - 12$$
.

(2)
$$0.750y + 12$$
.

(4)
$$1.333x - 12$$
.

6. A fourth-order linear system can be solved by the

- (1) graphical methods shown in the lesson.
- (2) determinant methods shown in the lesson.
- (3) both (1) and (2).
- (4) substitution method shown in the lesson.

7. Solve these linear equations for x and y:

$$15(x-y) - 10(y+0.2) + 15 = 30(x+y) - 6(y-2x)$$

$$10(3x-y) - 5(5x+y) = 4(5x+y) - 40(y+0.06)$$

(Hint: verify by substituting your values in the above equations.)

the value of x is in the range (Choose your answer from the choices given for Question 2.)

8. The value of y in Question 7 is in the range (Choose your answer from the choices given for Question 3.)

9. Which of the graphs in Fig. 38 is of $f(x) = x^2 - 3x - 4$?

10. Evaluate the determinant | 7

$$\begin{bmatrix} 5 & -1 & 0 \\ 2 & 0 & 1 \end{bmatrix}$$

$$(1) -9$$
 $(3) 7 (5) 9$

(7) None of the above