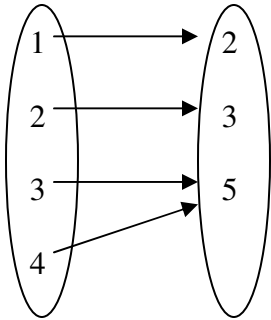


OBJECTIVE: To analyze and graph relations

Graph each of the following relations. Identify the domain and range. Determine whether or not the relation is a function.

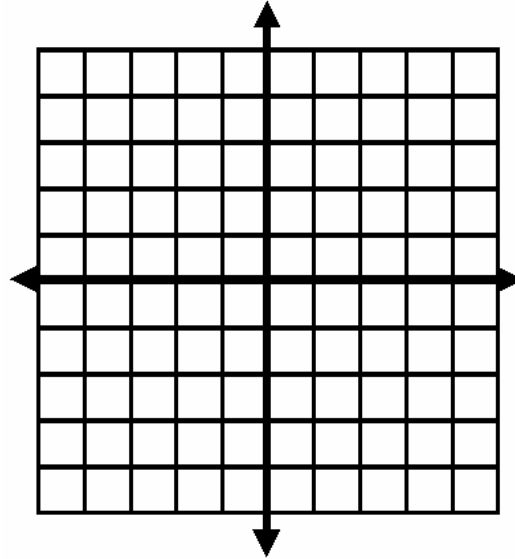
1.



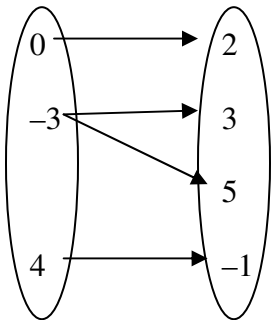
Domain: _____

Range: _____

Is the relation a function? _____



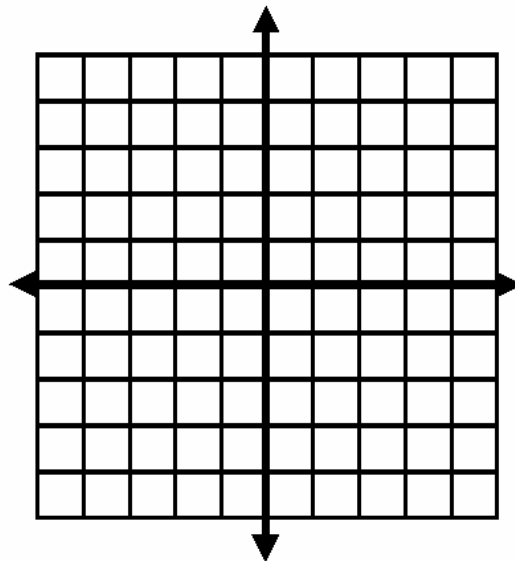
2.



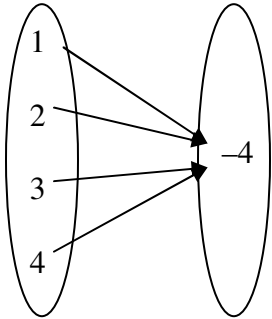
Domain: _____

Range: _____

Is the relation a function? _____



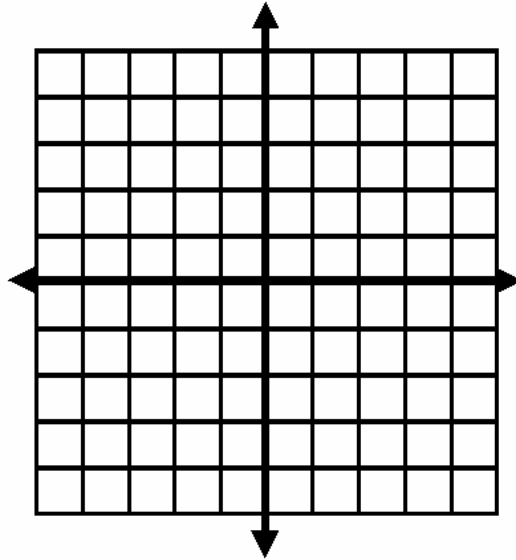
3.



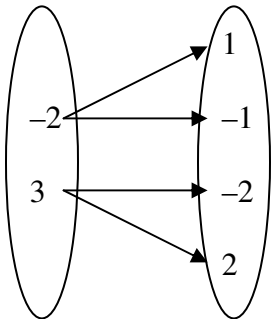
Domain: _____

Range: _____

Is the relation a function? _____



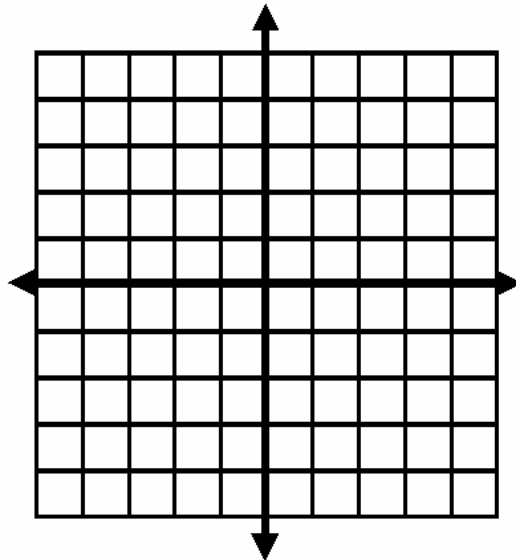
4.



Domain: _____

Range: _____

Is the relation a function? _____



Multiple Choice Practice Questions:

5. Solve the equation $4x - 5 = 2x + 5 - 3x$ for x .

a) -2

b) -1

c) 1

d) 2

6. Lucas determined that the total cost C to rent a car for the weekend could be represented by the equation $C = 0.35m + 125$, where m is the number of miles that he drives. If the total cost to rent the car was \$363, how many miles did he drive?

- a) 125 b) 238 c) 520 d) 680

7. The point $(-5, 2)$ lies in which quadrant of the coordinate plane?

- a) I b) II c) III d) IV

8. Evaluate $4 + x^2$ when $x = -3$

- a) -5 b) 1 c) 5 d) 13

9. Evaluate $\frac{-5x + y}{z^2}$ when $x = -4$, $y = 7$, $z = 3$.

- a) $-\frac{13}{9}$ b) $-\frac{5}{3}$ c) 3 d) 8

10. Evaluate $2(3-8)^2 \div 5 + 7$

- a) -3 b) $\frac{1}{3}$ c) $\frac{25}{26}$ d) 17