

Solve each equation.

1.) $3p - p = 0$

5.) $-2a - 4(-3a + 6) = -40 + 8a$

2.) $a + 6 + 4 = 7a + 10$

6.) $3 + 8(n - 5) = -37 + 8n$

3.) $-6 - 5a + 8a = 1 + 3a$

7.) $-5 - 4(v - 4) = 2(-v + 6) + 7$

4.) $6(1 + 8x) = 390$

8.) $-2(5 - 6a) - 4 = 2(2a - 3)$

Solve each equation for the indicated variable.

9.) $z = \frac{m}{x}, \text{ for } x$

10.) $g = -2x + 3, \text{ for } x$

11.) $ca = \frac{r}{a}, \text{ for } a$

12.) $z = y - mx, \text{ for } x$

13.) $2m + 3a = 1, \text{ for } a$

14.) $4m + 4a = -5, \text{ for } a$

15.) $u = -3y + 12, \text{ for } y$

16.) $g = -3b - 32a, \text{ for } a$

For each function, find the indicated values.

17.) $f: x \rightarrow 7x - 2$

$f(4) =$

$f(-1) =$

$f(0) =$

18.) $g: n \rightarrow |n^2 - 5n|$

$g(2) =$

$g(-2) =$

$g(1) =$

Find the Range of Each Function.

19.) $f: x \rightarrow x^2 - 2x, D = \{-2, 0, 4\}$

20.) $H: x \rightarrow -6x - |x|, D = \{-1, 3, 12\}$

Give the Domain of each Function.

20.) $f(x) = 2x - 3$

21.) $g(a) = \frac{23}{2a-12}$

22.) $H(x) = \sqrt{x+9}$

Let $f(x) = 2x + 1$ and $g(x) = |2 - 3x|$.

Find the indicated values.

23.) $g(f(3)) =$

25.) $g(f(0)) =$

24.) $f(g(-2)) =$

26.) $f(g(-4)) =$

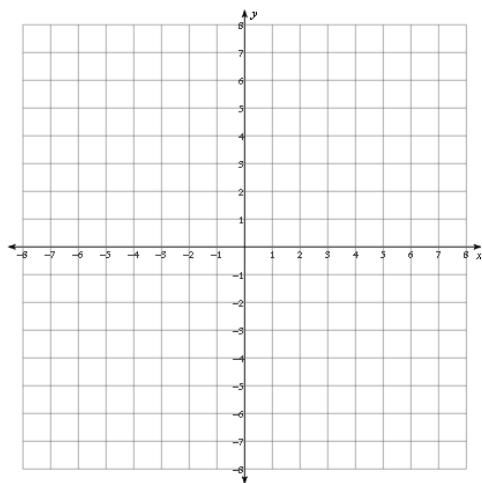
Give the domain and range of each relation. Is the relation a function?

27.) $\{(2, 7), (-1, 3), (0, 7)\}$

28.) $\{(-5, 2), (11, 51), (-5, 9)\}$

Graph each relation. Then tell whether it is a function. If it is not a function, draw a vertical line that intersects the graph more than once.

29.) $\{(2, 5), (3, 1), (0, 4), (2, -3)\}$



30.) $\{(-3, 6), (2, -2), (1, 4), (2, 7)\}$

