

(1-2) Find the value of the function at the given value of x.

1. $k(x) = 2x^2 + 4$ when $x = 3$

$$\begin{aligned} k(3) &= 2(3)^2 + 4 \\ &= 2(9) + 4 \\ &= 18 + 4 \end{aligned}$$

$$\boxed{k(3) = 22}$$

2. $s(x) = 3^x$ when $x = 2$

$$\begin{aligned} s(2) &= 3^2 \\ \boxed{s(2) = 9} \end{aligned}$$

(3-4) Find the value of x so that the function has the given value

3. $f(x) = 3x - 5$ when $f(x) = 10$

$$\begin{array}{r} 10 = 3x - 5 \\ \hline \end{array}$$

$$\frac{15}{3} = \frac{3x}{3}$$

$$\boxed{5 = x}$$

4. $h(x) = \frac{1}{2}x + 4$ when $h(x) = -8$

$$\begin{array}{r} -8 = \frac{1}{2}x + 4 \\ \hline -4 \quad -4 \end{array}$$

$$2 \cdot -12 = \frac{1}{2}x \cdot 2$$

$$\boxed{-24 = x}$$

Yes... there is a back ©

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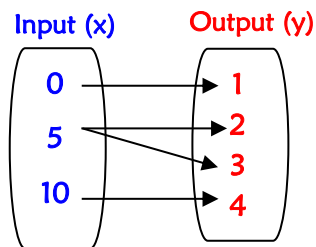
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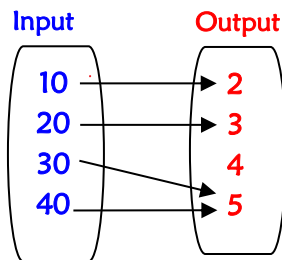
(5-7) Which of the following mappings represent functions? If it is not a function, explain why.

5.



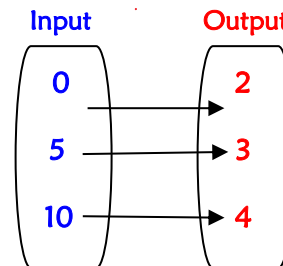
Not a function.
An x has more than one y

6.



yes, a function

7.



yes a function

(8-10) Which of the following tables represent functions? If it is not a function, explain why.

8.

Input	Output
5	9
6	11
7	13
8	15

yes, a function

9.

Input	Output
1	4
2	4
3	8
4	12

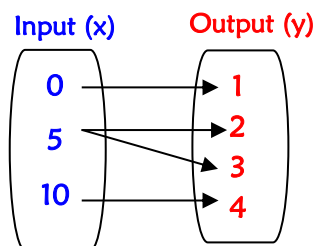
No, not a function.
An input has more than one output

10.

Input	Output
1	4
2	8
3	12
3	16

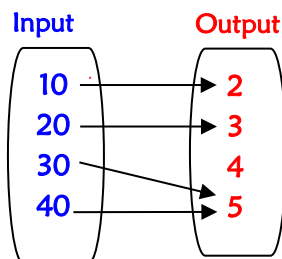
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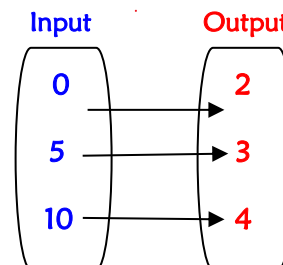
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