

# Graphing Functions

## Skill 4 - 10D

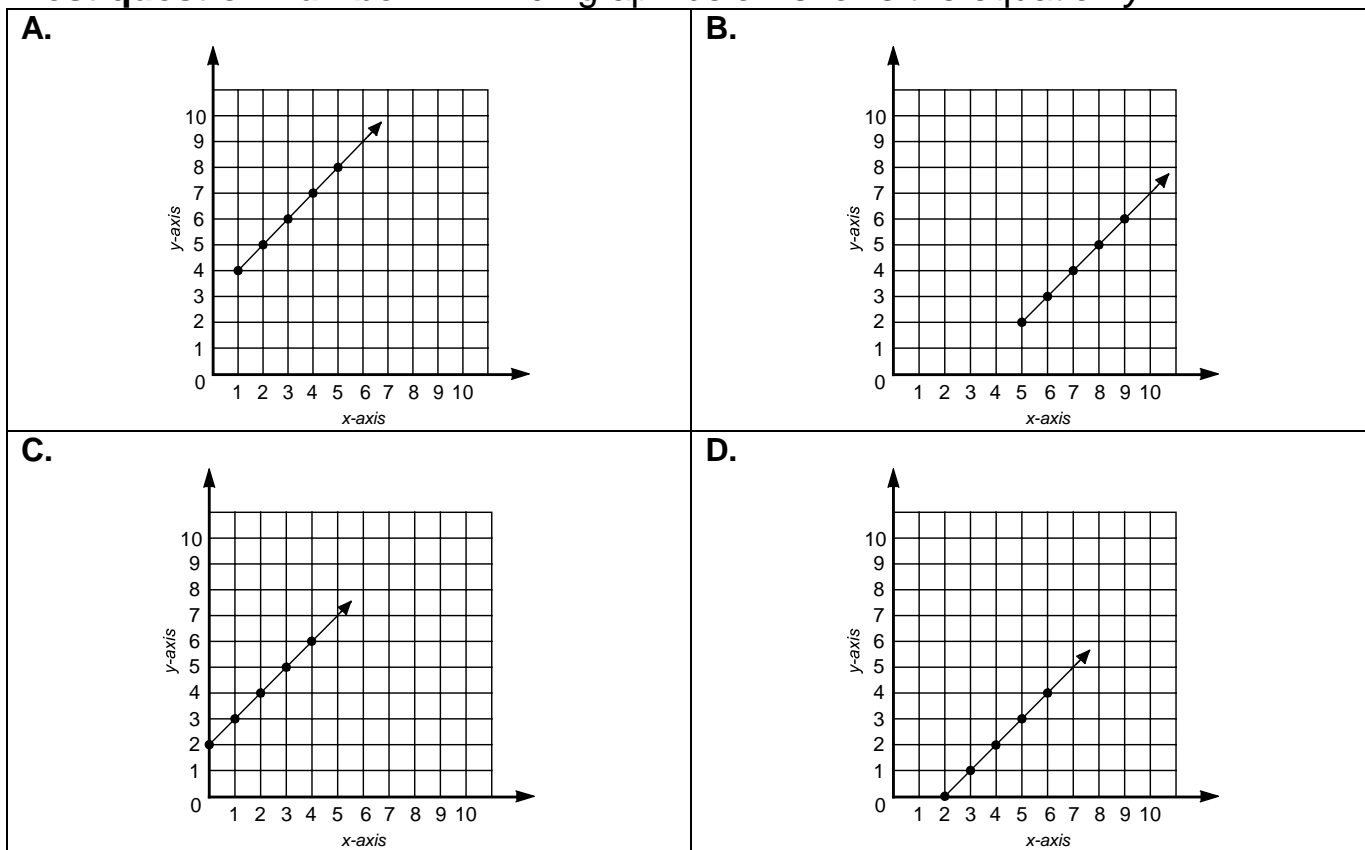
### Coordinate Graph

Answers to test question 10D

1. Use the following equation to complete the table.  $y = 2x + 2$

$x$	0	1	2	3	4
$y$	2	4	6	8	10

**Test question number 2.** Which graph below shows the equation  $y = x + 2$



**Answer: C**

To solve, make a function table using the equation  $y = x + 2$ .

$x$	0	1	2	3	4
$y$	2	3	4	5	6

Use the equation  $y = x + 2$  to find the value of  $y$ .       $y = 0 + 2$        $0 + 2 = 2$        $y = 2$

The next step is to place the number 2 in the table to show the  $y$ -coordinate. The first ordered pair is now in the table. It is  $(0, 2)$ . You can see that the ordered pair  $(0, 2)$  is plotted on the coordinate graph labeled C.

Continue until the table is complete. Plot each ordered pair and connect the points with a line.

# Graphing Functions

## Skill 4 - 10D

### Coordinate Graph

#### Example

Use the equation  $y = 2x$  to complete the function table below. Plot each ordered pair on the graph and connect the points with a line.

$x$	0	1	2	3	4
$y$	0	2			

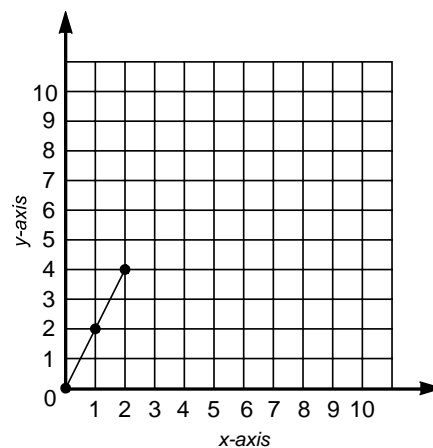
The function table above shows the first ordered pair (0,0). Now look at the coordinate graph and look at the location of the first point.

The  $x$ -coordinate is 0 and the  $y$ -coordinate is 0. A point is plotted at (0,0).

The next ordered pair is (1,2). Move along the  $x$ -axis on the graph to the number 1. Then move along the  $y$ -axis to the number 2. A point is plotted at (1,2).

The next ordered pair is (2,4). Again, the point is plotted for you.

Complete the table, plot the ordered pairs on the coordinate graph and complete the line by connecting all of the points.

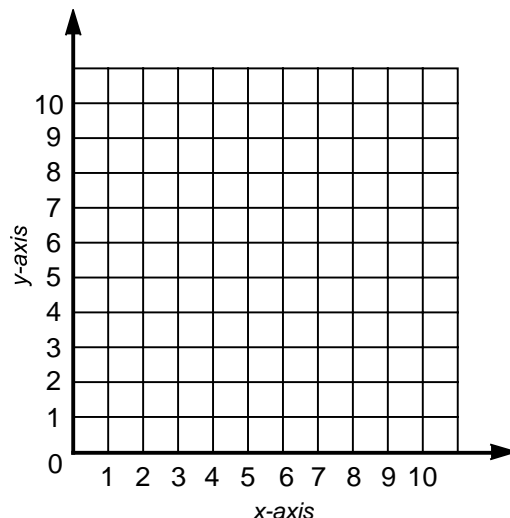


Complete each table using the equation. Plot points on the coordinate graph using the data from the table. Connect the points with a line.

2.

$$y = 3x$$

$x$	0	1	2	3
$y$				



# Graphing Functions

## Skill 4 - 10D

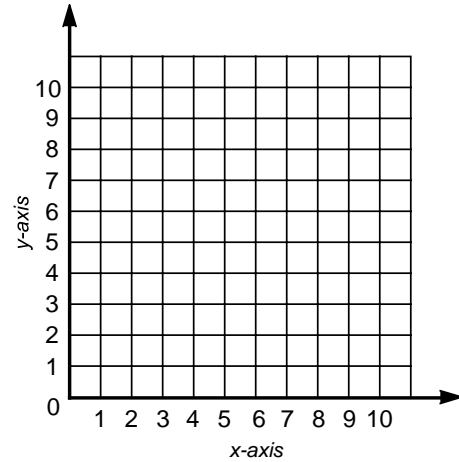
### Coordinate Graph

Complete each table using the equation. Plot points on the coordinate graph using the data from the table. Connect the points with a line.

3.

$$y = 2x$$

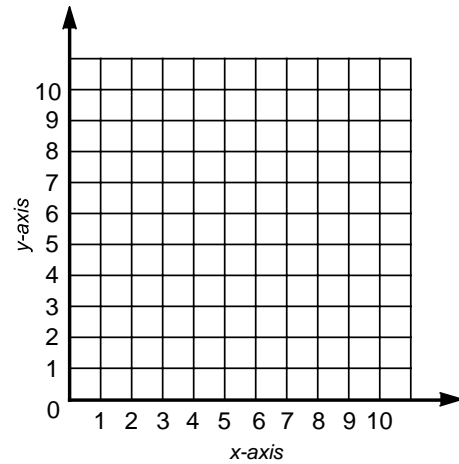
x	1	2	3	4	5
y					



4.

$$y = x + 2$$

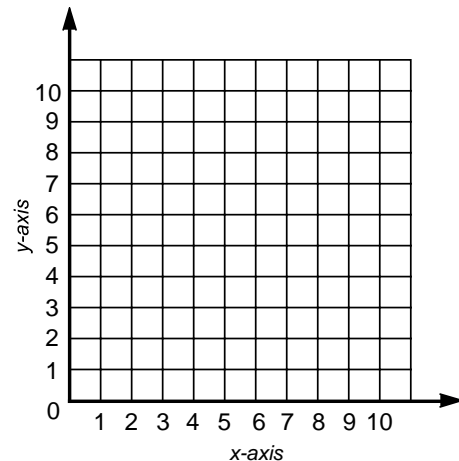
x	2	3	4	5
y				



5.

$$y = x + 1$$

x	3	4	5	6	7
y					



# Graphing Functions

## Skill 4 - 10D

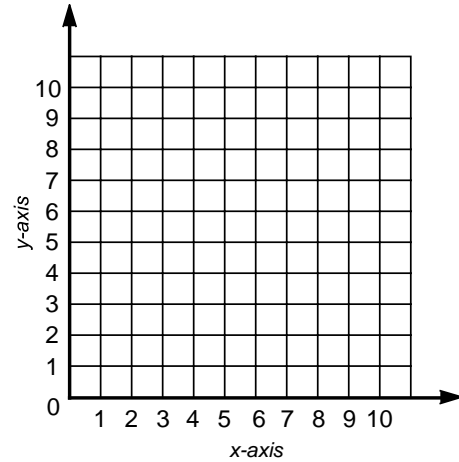
### Coordinate Graph

Complete each table using the equation. Plot points on the coordinate graph using the data from the table. Connect the points with a line.

6.

$$y = 2x + 2$$

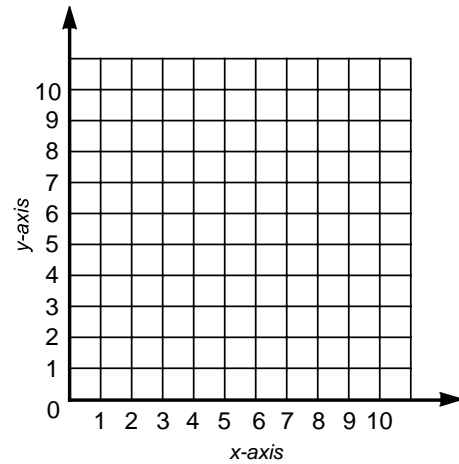
x	0	1	2	3	4
y					



7.

$$y = x + 3$$

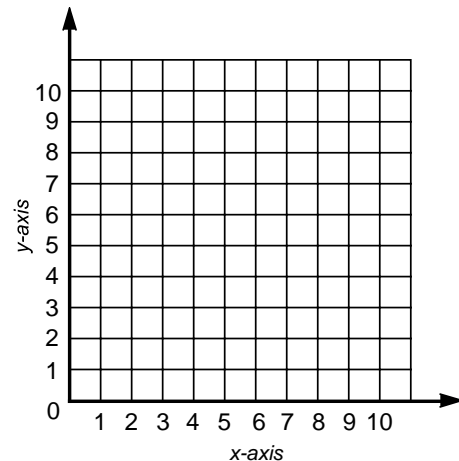
x	1	2	3	4
y				



8.

$$y = 2x + 1$$

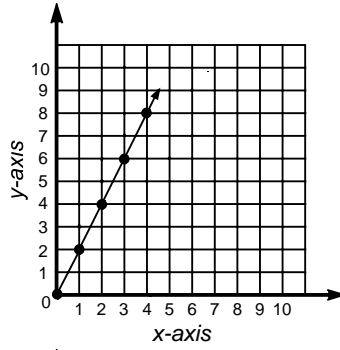
x	0	1	2	3	4
y					



Answer Key, Grade 4, Skill 10D

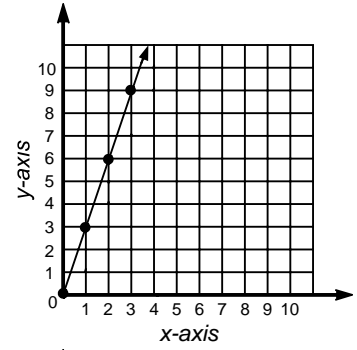
1.  $y = 2x$

x	0	1	2	3	4
y	0	2	4	6	8



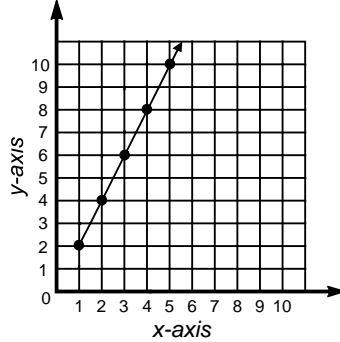
2.  $y = 3x$

x	0	1	2	3
y	0	3	6	9



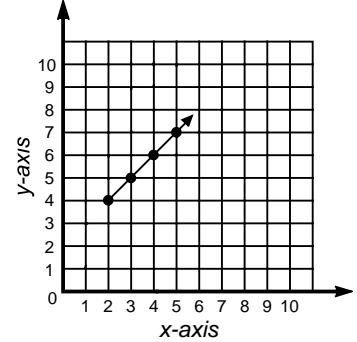
3.  $y = 2x$

x	1	2	3	4	5
y	2	4	6	8	10



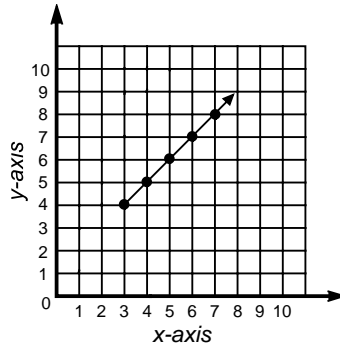
4.  $y = x + 2$

x	2	3	4	5
y	4	5	6	7



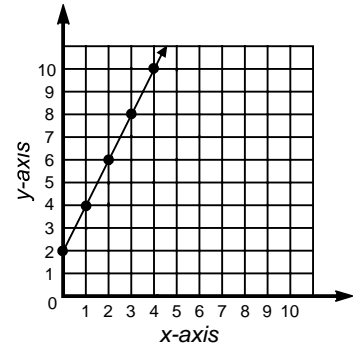
5.  $y = x + 1$

x	3	4	5	6	7
y	4	5	6	7	8



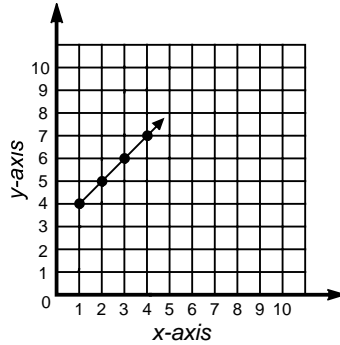
6.  $y = 2x + 2$

x	0	1	2	3	4
y	2	4	6	8	10



7.  $y = x + 3$

x	1	2	3	4
y	4	5	6	7



8.  $y = 2x + 1$

x	0	1	2	3	4
y	1	3	5	7	9

