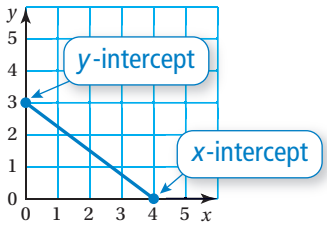
REVIEW: Graphs of Equations

Name _____

Key Concept and Vocabulary

Equation: $y = 3 - \frac{3}{4}x$

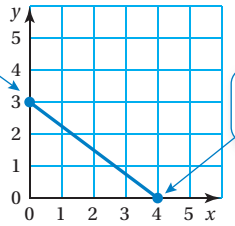


Visual Model

When $x = 0$, $y = 3$.

When $y = 0$, $x = 4$.

$y = 3 - \frac{3}{4}x$



Skill Example

1. Equation: $y = 3 - \frac{3}{4}x$

Table:

x	0	1	2	3	4	5
y	3	$\frac{9}{4}$	$\frac{3}{2}$	$\frac{3}{4}$	0	$-\frac{3}{4}$

Application Example

2. A parachutist's height h (in feet) is given by $h = 450 - 15t$, where t is the time in seconds. When does the parachutist land?

t	0	5	10	15	20	25	30
h	450	375	300	225	150	75	0

∴ After 30 seconds, the height is 0 feet.

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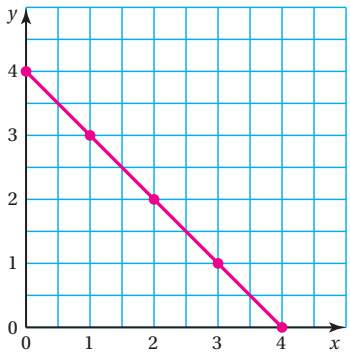
Check your answers at BigIdeasMath.com.

Complete the table. Then sketch the graph.

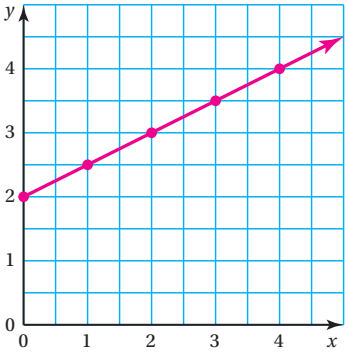
3. $y = 4 - x$

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



4. $y = \frac{1}{2}x + 2$

x	y
0	2
1	$\frac{5}{2}$
2	3
3	$\frac{7}{2}$
4	4



Find the x-intercept and y-intercept of the graph of the equation.

5. $y = 5 - x$ x-intercept = 5, y-intercept = 5

6. $y = 5 - \frac{1}{2}x$ x-intercept = 10, y-intercept = 5

7. PARACHUTE FALL A parachutist's height h (in feet) is given by $h = 1000 - 20t$, where t is the time in seconds. When does the parachutist land?

after 50 sec

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