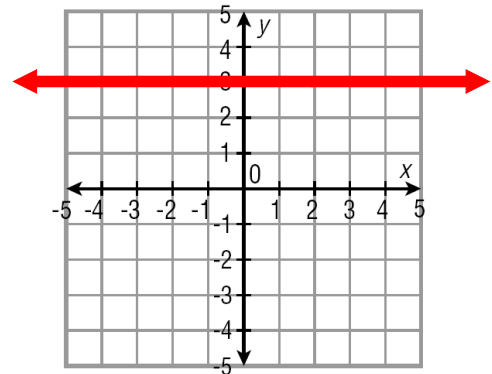


Sect. 4.2

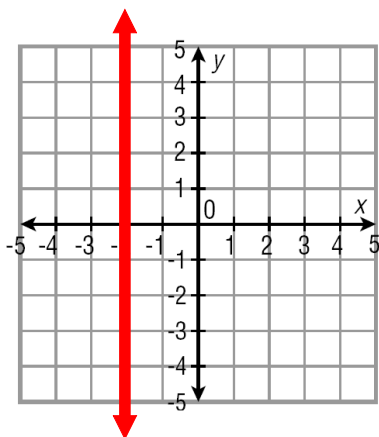
Do not draw pictures on the white

Draw a horizontal line on your graph.



What would be an equation for the line you drew? $y = 3$

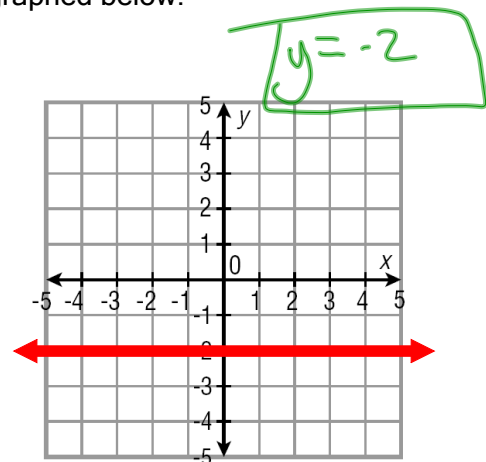
Draw a vertical line on your graph.



What would be an equation for the line you drew? $x = -2$

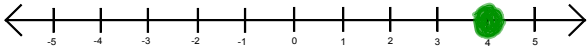
Example 1

Give an equation describing all points on the line graphed below.

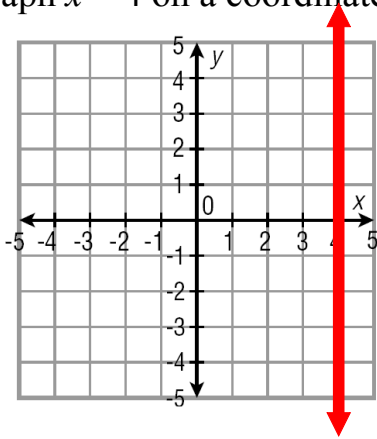


Ex. 2

a. Graph $x = 4$ on a number line.



b. Graph $x = 4$ on a coordinate plane.



Ex. 3

Jealani has \$650 dollars in his savings account. As long as he keeps \$100 in the account he does not have to pay a service fee. How long can he withdraw \$50 a week and not pay a service fee?

$$650 - 50w = 100$$

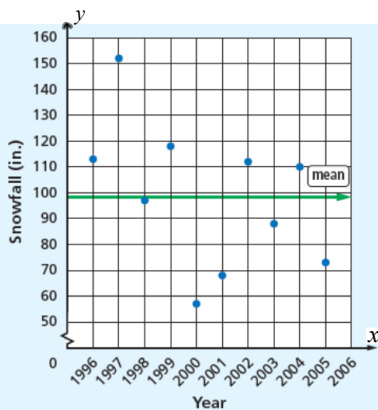
$$-650 \quad -650$$

$$-50w = -550$$

$$\frac{-50w}{-50} = \frac{-550}{-50}$$

$$w = 11 \text{ weeks}$$

The graph shows the annual snowfall on Mt. Hood near Portland, Oregon. The mean snowfall is 98.5 inches per year. This information is important for the water supply in the region, and also for people who like to ski on Mt. Hood.



What is an equation of the line that is graphed?

$$y = 98.5$$

Which year had the greatest absolute deviation from the mean?

1997

What was the deviation from the mean in 2004?

$$110 - 98.5 = 11.5$$

Writing equations!!

Write an equation for the line containing the given points.

$(6, 5), (-3, 5), (0.07, 5)$

$$y = 5$$

Write an equation for the vertical line through $(7, -13)$.

$$x = 7$$