3-3 D2 Notes

Friday, January 26, 2024 10:17 AM

Horizontal lines:

$y =$ lines (no x)

zero slope

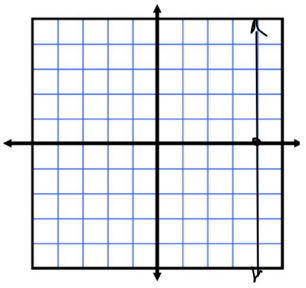
Vertical lines:

$x =$ lines (no y)

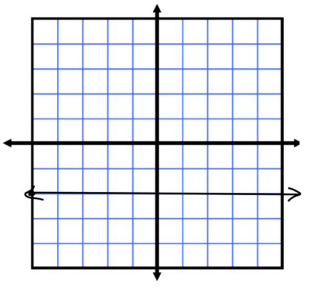
no slope

Graph.

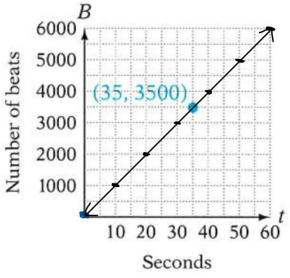
1) $x = 4$



2) $y = -2$



32. A bee beats its wings approximately 100 times per second. The equation that describes the total number of times a bee beats its wings is given by $B = 100t$. Graph this equation for $0 \le t \le 60$. The ordered pair (35, 3500) is on this graph. Write a sentence that describes the meaning of this ordered pair.



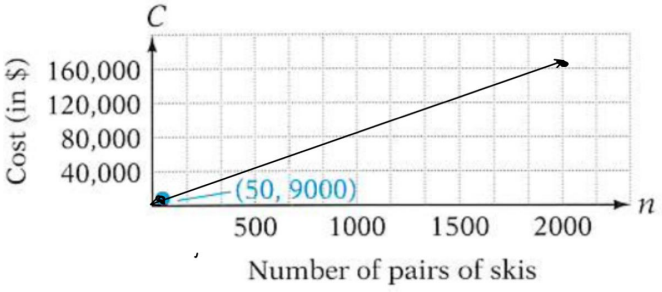
slope

$B = 100t + 0$

y-intercept (0,0)

The cost of manufacturing skis is \$5000 for startup and \$80 per pair of skis manufactured. The equation that describes the cost of manufacturing n pairs of skis is $C = 80n + 5000$. Graph this equation for $0 \le n \le 2000$. The point (50, 9000) is on the graph. Write a sentence that describes the meaning of this ordered pair.

→ 50 skis costs \$9000



$C = 80n + 5000$

use 2000

$C = 80(2000) + 5000$

$= 165000$