

Willamette Hideout 1

The table shown here represents which linear equation?

If $y = 4x + 3$ then go to 6

If $y = 3x + 4$ then go to 3

If $y = -2x - 2$ then go to 5

If none of these then go to 4

x	y
-2	-2
-1	1
0	4
1	7
2	10

Willamette Hideout 2

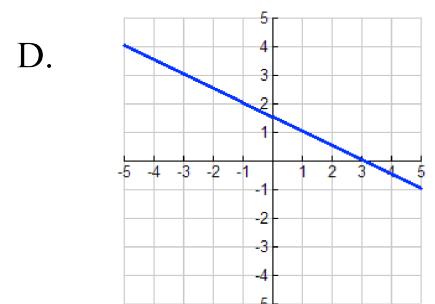
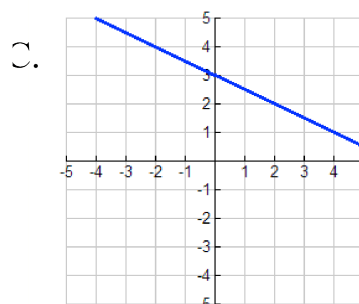
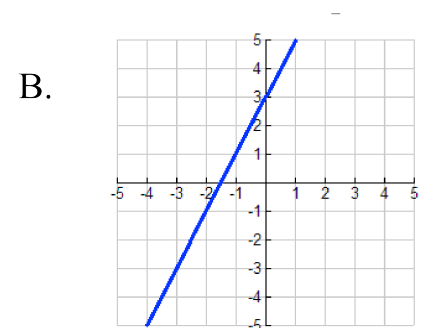
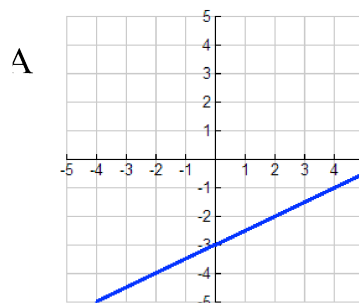
Which is the graph of $y = 2x + 3$?

If A then go to 1

If B then go to 4

If C then go to 5

If D then go to 3



Willamette Hideout 3

Find the equation of the line whose slope is $\frac{1}{3}$ and y-intercept is 3.

If $y = \frac{1}{3}x$ then go to 3

If $y = 3x + \frac{1}{3}$ then go to 1

If $y = \frac{1}{3}x + 3$ then go to 5

If none of these then go to 2

Willamette Hideout 4

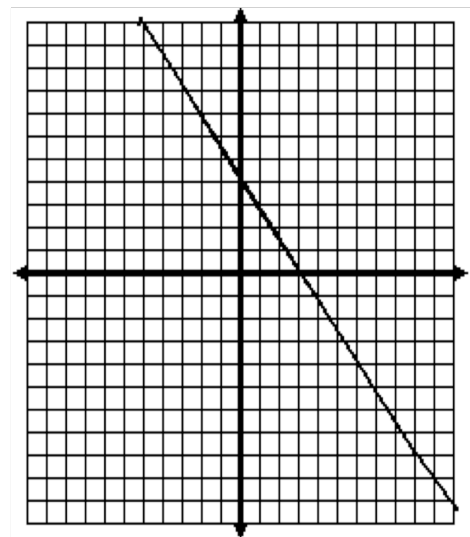
Which equation matches the graph?

If $y = \frac{4}{3}x + 3$ then go to 5

If $y = \frac{3}{4}x + 4$ then go to 4

If $y = -\frac{4}{3}x + 4$ then go to 1

If none of these then go to 2



Willamette Hideout 5

Solve: $2x - 7 = 5x - 4$

If $x = -1$

then go to 7

If $\frac{4}{3}$

then go to 2

If -6

then go to 5

If 1

then go to 10

Willamette Hideout 6

What is: $6 + 2x = 7x + 21$

If 3

then go to 8

If -3

then go to 2

If $\frac{26}{5}$

then go to 7

If $\frac{5}{26}$

then go to 4

Willamette Hideout 7

Solve: $5(9 - 3x) + 10x = 3(7 - x)$

If -3

then go to 1

If 12

then go to 8

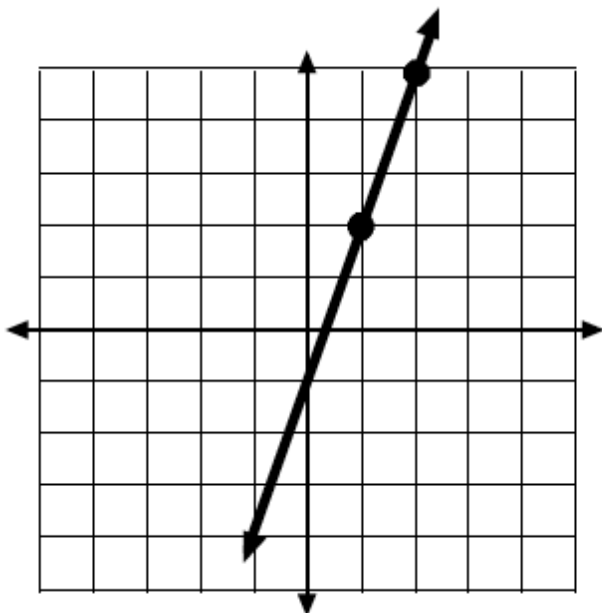
If 24/28

then go to 5

If -12

then go to 10

Willamette Hideout 8



What is the equation of the line?

If $y = \frac{1}{3}x - 1$

then go to 1

If $y = \frac{1}{3}x + 1$

then go to 4

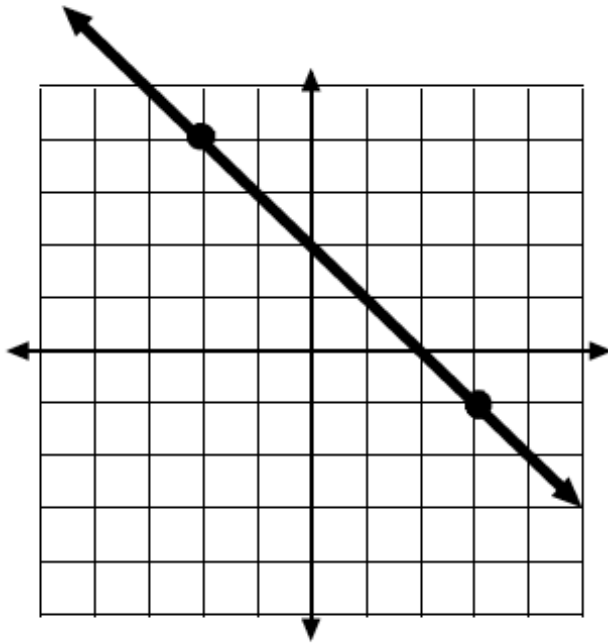
If $y = 3x - 1$

then go to 11

If $y = -3x - 1$

then go to 5

Willamette Hideout 9



What is the equation of the line?

If $y = -x + 2$

then go to 10

If $y = -2x + 2$

then go to 5

If $y = -\frac{1}{2}x + 2$

then go to 8

If $y = -\frac{1}{2}x - 2$

then go to 2

If none of these

then go to 7

Willamette Hideout 10

If each figure is made with toothpicks, **how many toothpicks would be in the 51st figure?**

Hint: the nth term expression follows this formula..... growth rate(n) + start value

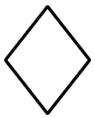


Figure 0

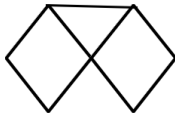


Figure 1

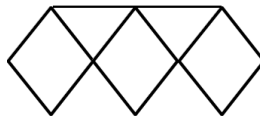


Figure 2



Figure 51

If 205

then go to 1

If 209

then go to 3

If 259

then go to 6

If none of these

then go to 4

Willamette Hideout 11

Identify which equation matches the word problem.

Dinner at a restaurant is four times as expensive as it was 30 years ago. Today the average cost is about \$15.00 per person. What was the average cost of one dinner back then?

Let d = the cost of one dinner 30 years ago

$$\text{If } \frac{x}{4} = 60$$

then go to 6

$$\text{If } 4d = 60$$

then go to 2

$$\text{If } 4d = 15$$

then go to 12

$$\text{If } \frac{x}{4} = 15$$

then go to 9

Willamette Hideout 12

Which points are solutions to $y = 3x - 5$?

If $(-5, 1)$

then go to 7

If $(3, 0)$

then go to 10

If $(1, -2)$

then go to 9

If none of these

then go to 5