

Spiraling Practice

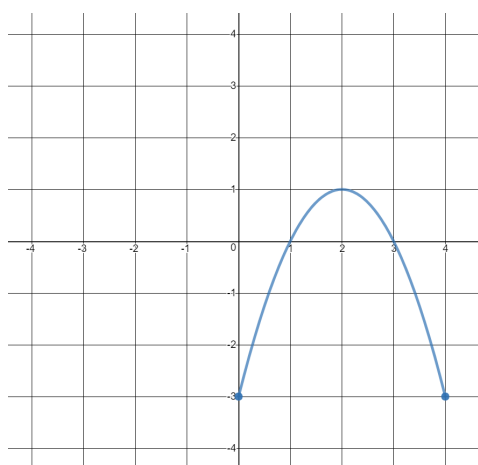
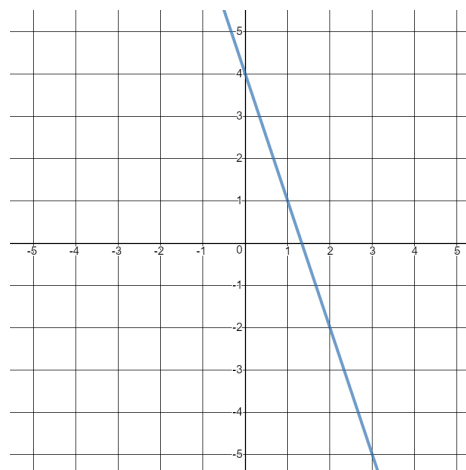
$$3(2x - 4) + 1 = 5(x - 3)$$

If $x = \frac{2}{3}y$ and $y = 18$, what is the value of $2x - 3$?

- A) 21
- B) 15
- C) 12
- D) 10

Calculate the slope for both the table and the graph (the answers are different).

Domain	Range
-3	-6
6	-12
9	-14
15	-18



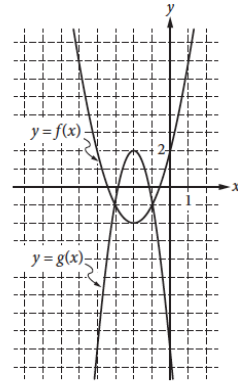
Domain

Range

Of the following four types of savings account plans, which option would yield exponential growth of the money in the account?

- A) Each successive year, 2% of the initial savings is added to the value of the account.
- B) Each successive year, 1.5% of the initial savings and \$100 is added to the value of the account.
- C) Each successive year, 1% of the current value is added to the value of the account.
- D) Each successive year, \$100 is added to the value of the account.

$$14 - 3x > 9 - 8x$$



Graphs of the functions f and g are shown in the xy -plane above. For which of the following values of x does $f(x) + g(x) = 0$?

- A) -3
- B) -2
- C) -1
- D) 0

Factor $\rightarrow 5x^2 + 13x - 6$

Video $\rightarrow$ bit.ly/bxfct

Video $\rightarrow$ bit.ly/expdiv

$$\frac{16x^7 y^{-3} z^4}{4x^5 y^{-7} z^6}$$

$$p(x) = 3(x^2 + 10x + 5) - 5(x - k)$$

In the polynomial $p(x)$ defined above, k is a constant. If $p(x)$ is divisible by x , what is the value of k ?

- A) -3
- B) -2
- C) 0

