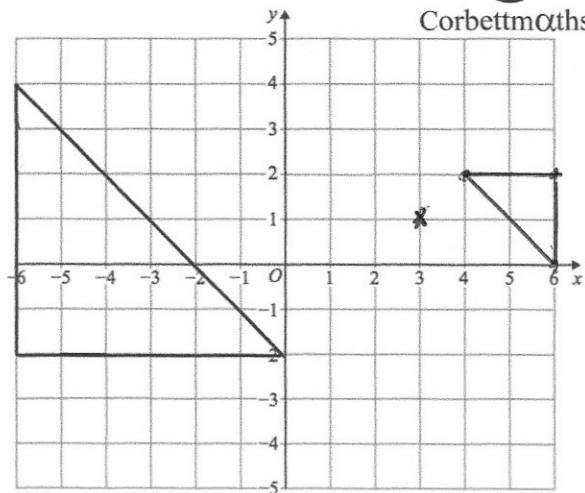




Enlarge the triangle with scale factor $-\frac{1}{3}$ using centre of enlargement (3, 1)



$$f(x) = \frac{6x - 3}{4}$$

Find $f(-5)$

$$\frac{6 \times (-5) - 3}{4} = \frac{-33}{4} = -8.25$$

Simplify

$$\frac{x^4}{3yz} \div \frac{2x^3}{6z}$$

$$\frac{x^4}{\cancel{3y}z} \times \frac{\cancel{6}z}{\cancel{2}x^3} = \frac{x}{y}$$

$$\frac{x}{y}$$

Mia is creating an 6 digit password.

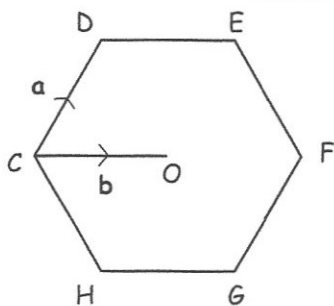
The first two digits are a multiple of 35.
 The second two digits are an odd number between 10 and 90.
 The second last digit is one more than the last digit.

How many possible different possible codes could Mia create?

1st 2nd ; 3rd 4th ; 5th 6th

35, 70 ; 10, 54, 87, 32, 65, 98, 43, 76

$$2 \times 40 \times 9 = 720$$



Shown is a regular hexagon.

Write down the vector \vec{CE}

$$\underline{a} + \underline{b}$$