A night sky with the Milky Way galaxy visible as a bright, hazy band of stars. A comet with a long, glowing tail streaks across the lower right portion of the sky. The foreground shows the dark silhouette of a mountain range or hills.

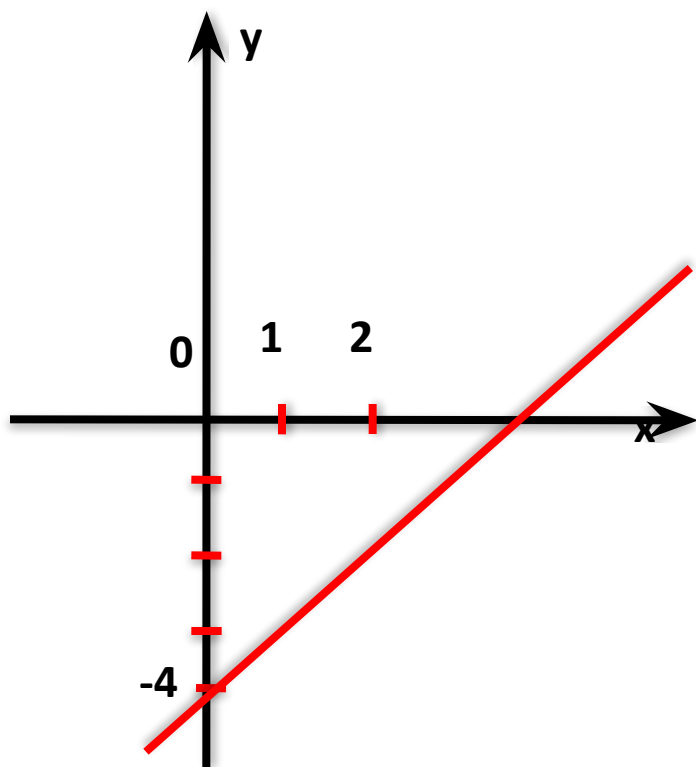
Линейная функция,  
её график, свойства.

A night sky with the Milky Way galaxy visible as a dense band of stars. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape, possibly a mountain range or a valley.

# Проверка сплоченности КОСМОНАВТОВ

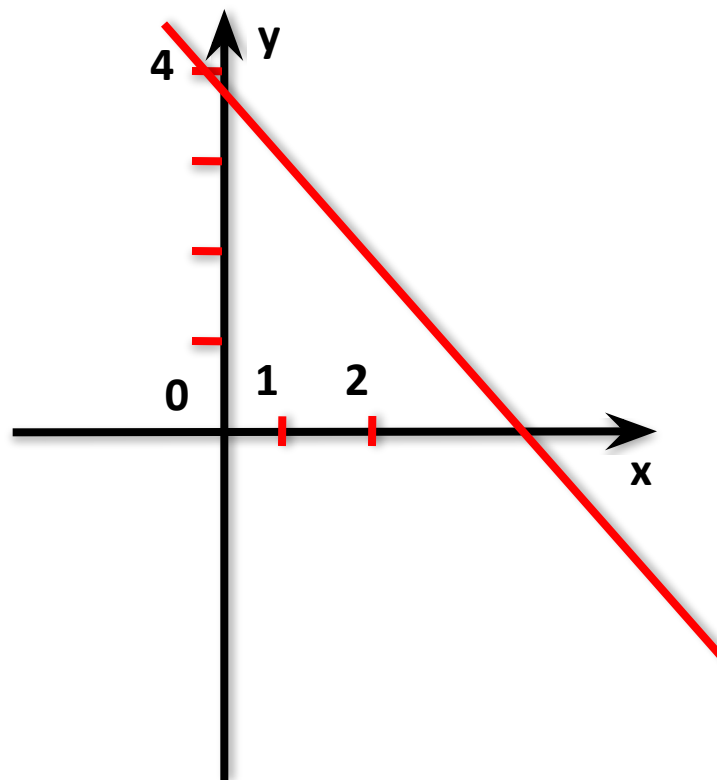
$$y=x-4$$

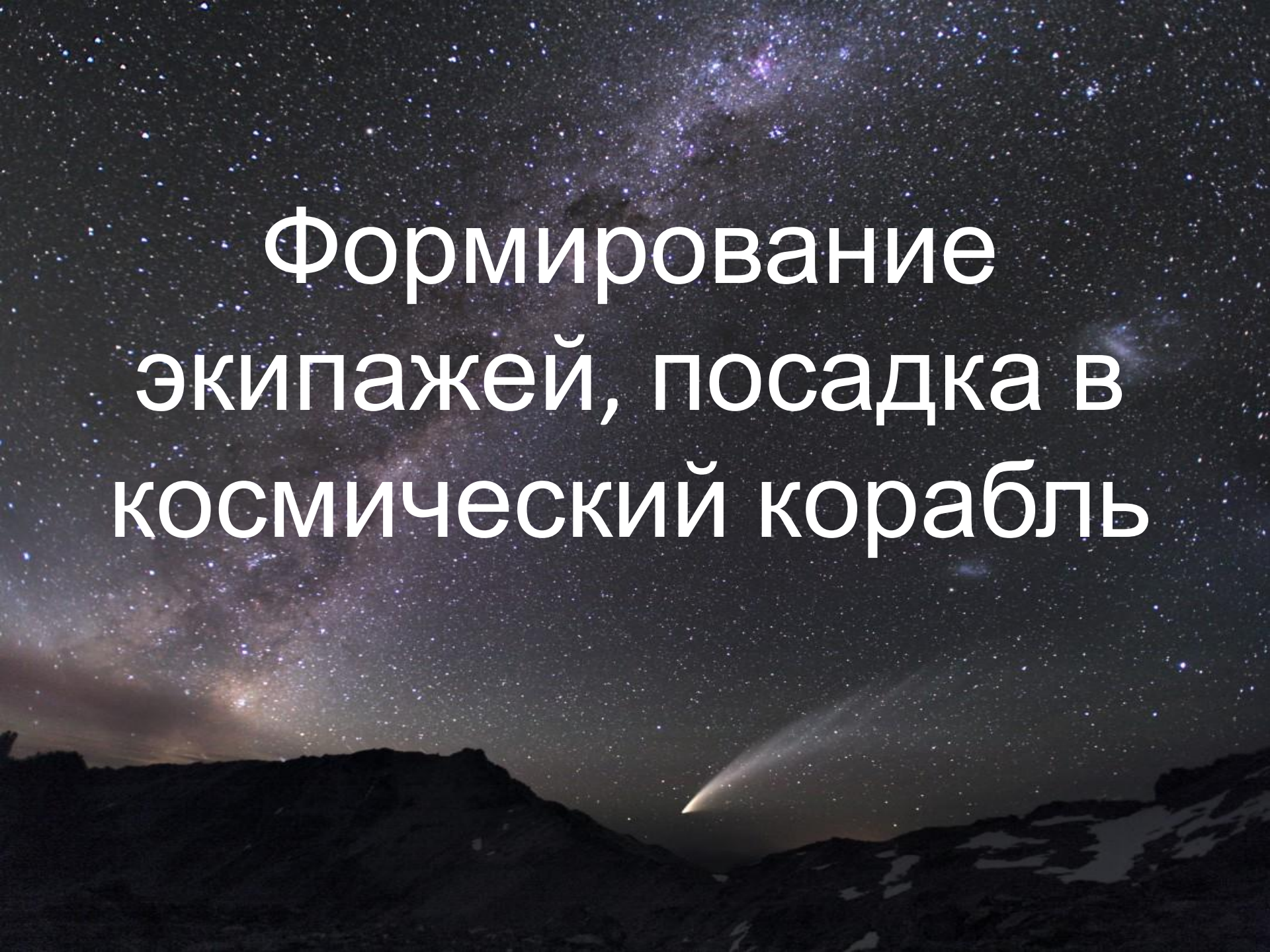
I вариант



$$y=-x+4$$

II вариант

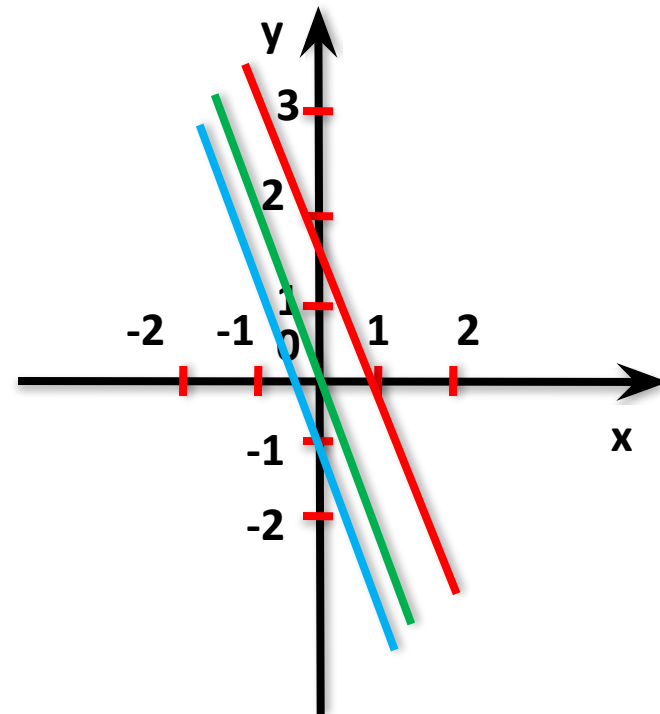
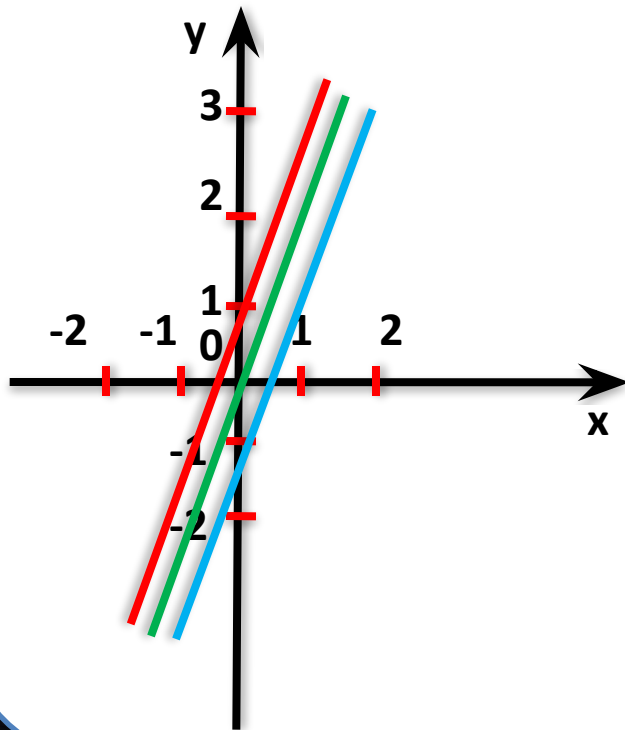




# Формирование экипажей, посадка в космический корабль

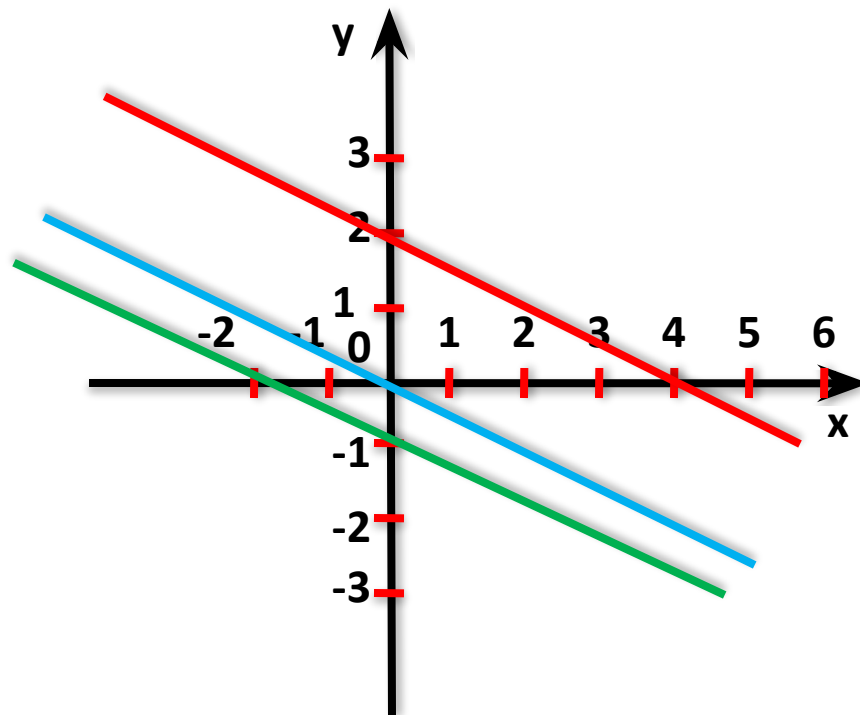
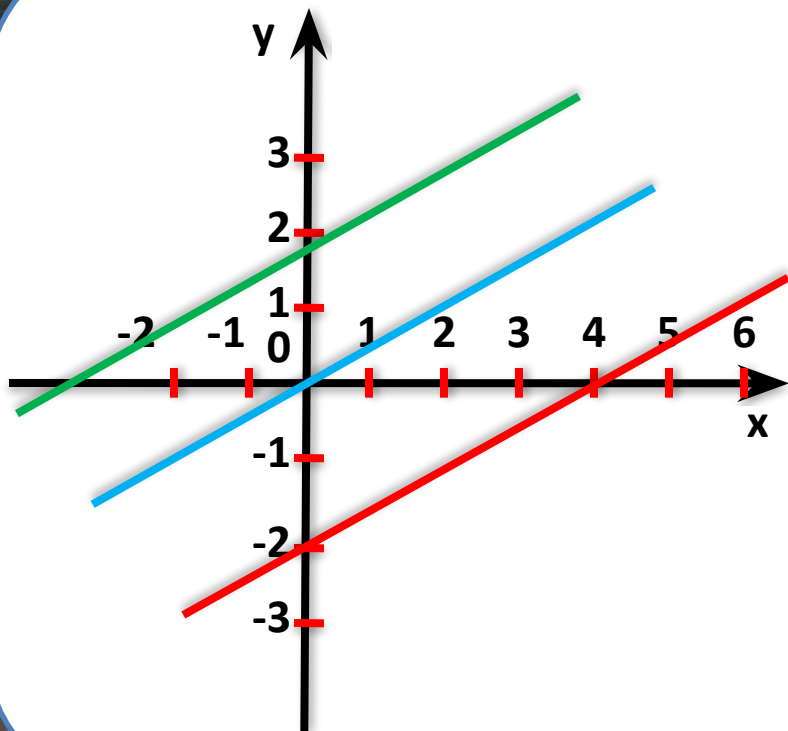
$$y=2x \quad y=2x+1 \quad y=2x-1$$

$$y=-2x+1 \quad y=-2x-1 \quad y=-2x$$



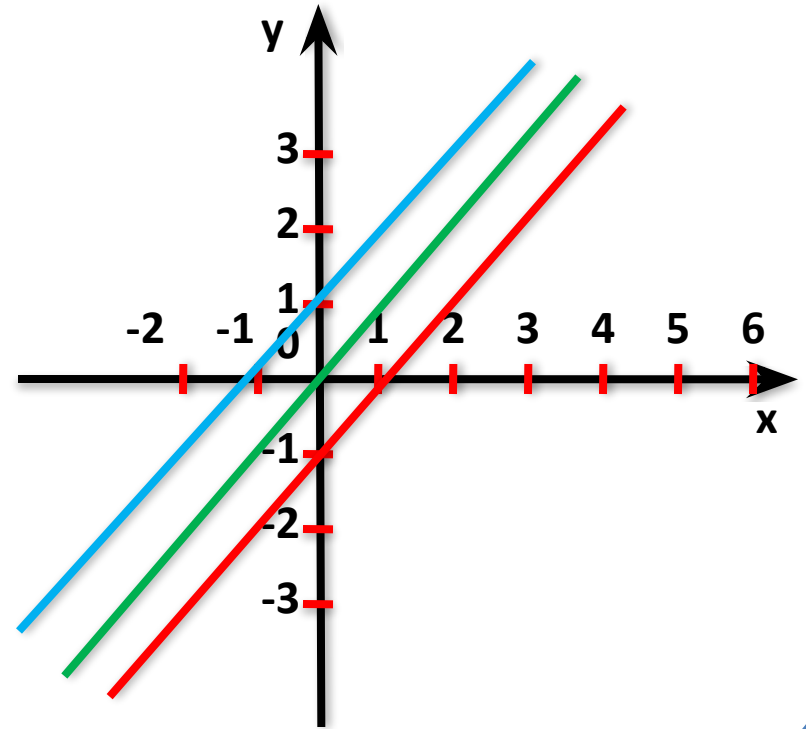
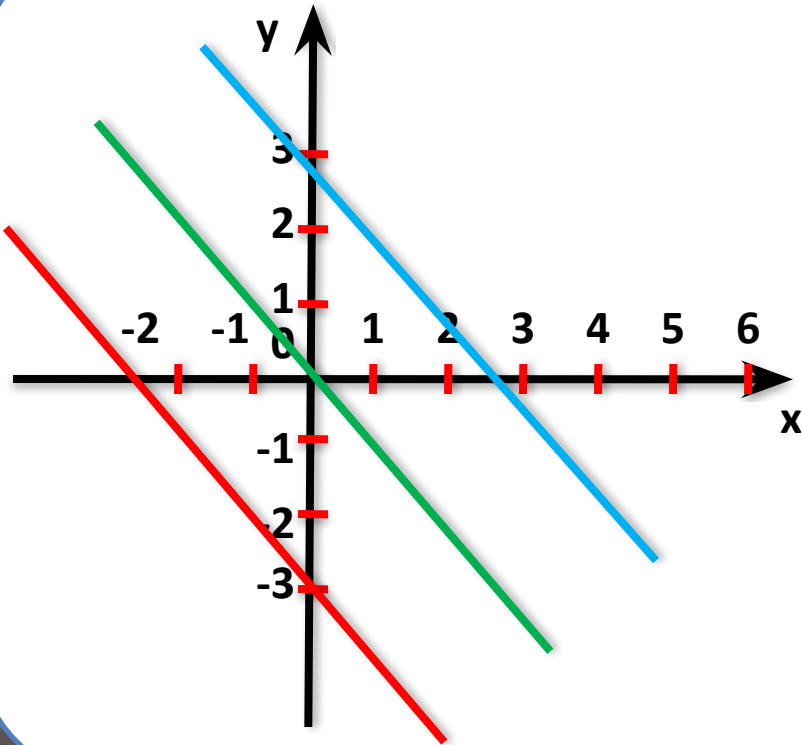
$$y=0,5x+2 \quad y=0,5x-2 \quad y=0,5x$$

$$y=-0,5x+2 \quad y=-0,5x \quad y=-0,5x-2$$



$$y = -x \quad y = -x + 3 \quad y = -x - 3$$

$$y = x + 1 \quad y = x - 1 \quad y = x$$



# Полет в космос

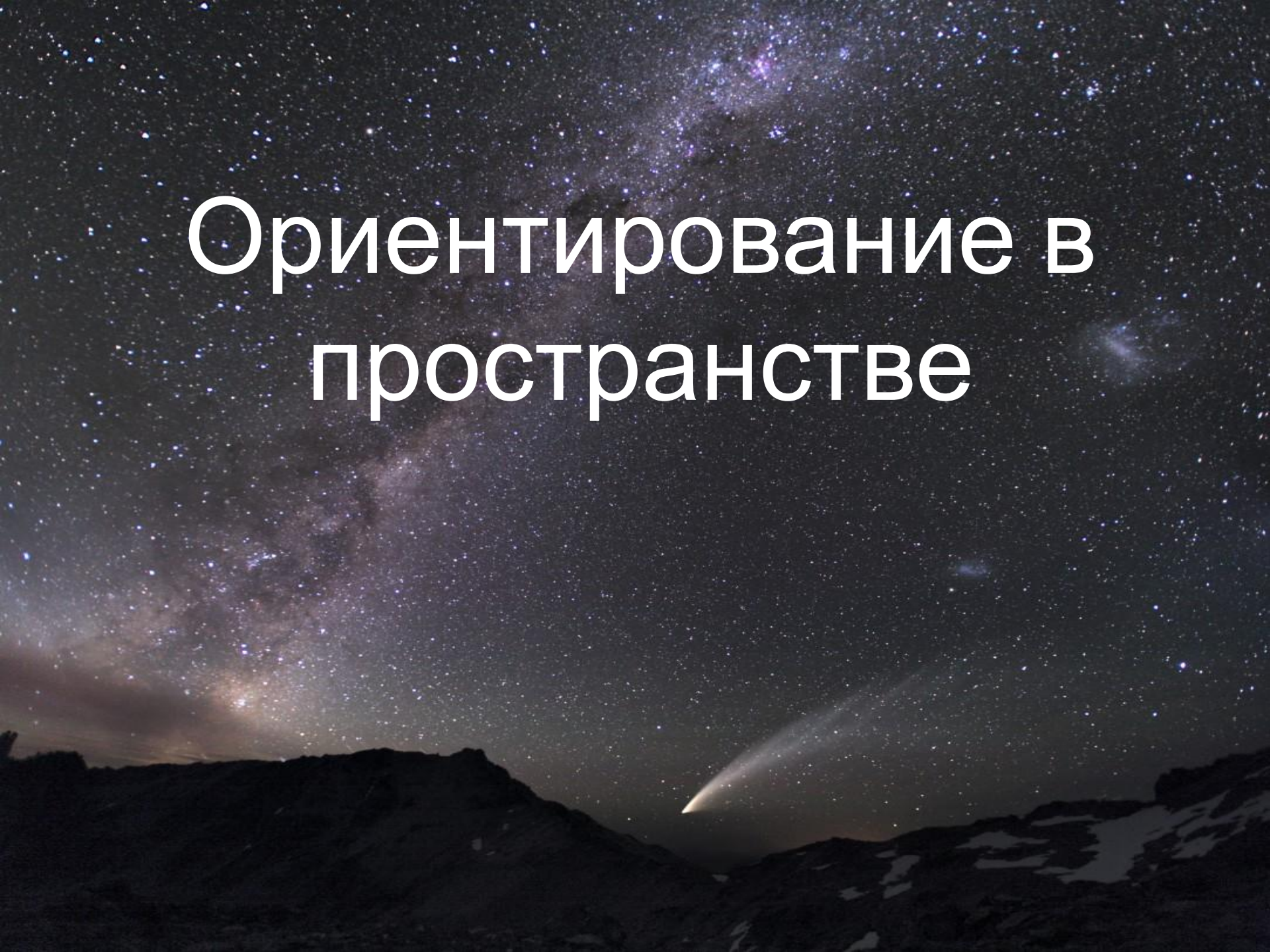
A night sky photograph featuring the Milky Way galaxy. The galaxy's core is visible as a bright, dense band of stars and dust, stretching diagonally across the upper half of the frame. The foreground shows the dark silhouette of a mountain range or rugged terrain. A bright comet streaks across the lower right portion of the sky, leaving a long, glowing tail. The overall scene is dark and starry, with a focus on cosmic phenomena.



# Найти уравнения линейных функций

$y = -x + 0,2$ ;  $y = 12,4x - 115,7$ ;  $y = -9x - 118$ ;  $y = 5,04x$ ;  
 $y = -5,04x$ ;  $y = 126,35 + 8,75x$ ;  $y = x - 0,2$ ;  $y = -x : 8$ ;  
 $y = -0,0005x$ ;  $y = 133,133133x$ ;  $y = -10,001x$ ;  $y = 2 : x$ ;  
 $y = -0,0049$ ;  $y = 62,4$ .

# Ориентирование в пространстве

A night sky photograph featuring the Milky Way galaxy. The galaxy's core is visible as a bright, dense band of stars and dust, stretching diagonally across the upper half of the frame. The foreground shows a dark, silhouetted mountain range under a starry sky. A bright comet streaks across the lower right portion of the sky, leaving a long, glowing trail.

# Полет в космос

A night sky photograph featuring the Milky Way galaxy. The galaxy's bright core and spiral arms are visible, stretching across the upper half of the frame. In the lower right, a comet streaks across the sky, leaving a long, glowing tail. The foreground shows the dark silhouette of a mountain range or rugged terrain under a starry sky.

### 1 экипаж

$(0;-1); k>0;$   
I, III –

четверть  
;

### 4 <sup>$k=3$</sup> экипаж

$(0;1); k<0;$   
II, IV –

четверть;  
 $k=-0,5.$

### 2 экипаж

$(0;-1); k<0;$   
II, IV –

четверть;  
 $k=-3.$

### 5 экипаж

$(0;2); k>0;$   
I, III –

четверть;  
 $k=2.$

### 3 экипаж

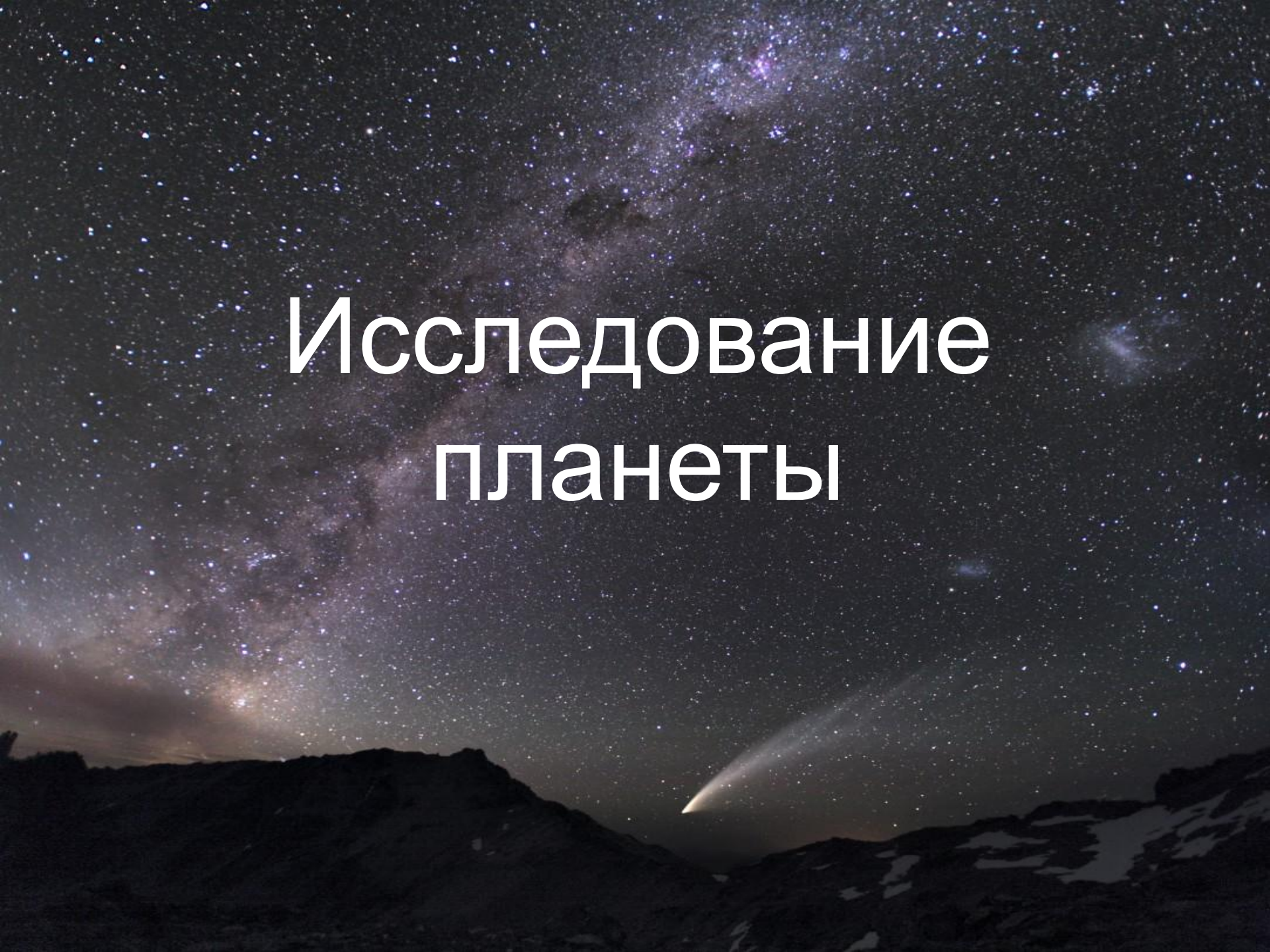
$(0;1); k<0;$   
II, IV –

четверть;  
 $k=-2.$

### 6 экипаж

$(0;-2); k>0;$   
I, III –

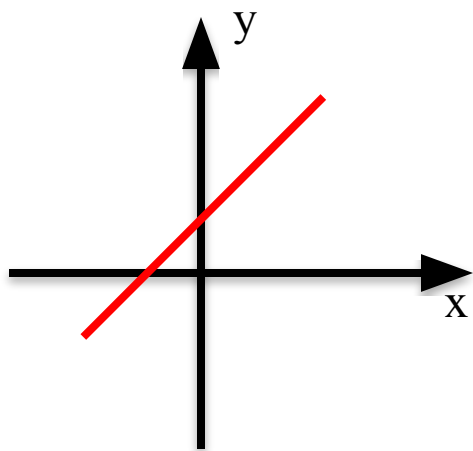
четверть;  
 $k=2.$

A night sky photograph featuring the Milky Way galaxy. The galaxy's core is visible as a bright, dense band of stars and dust, arching across the upper portion of the frame. The foreground shows dark, silhouetted mountain ranges. A bright comet streaks across the lower right quadrant of the sky, leaving a long, glowing tail. The overall scene is dark, with the stars providing the primary light source.

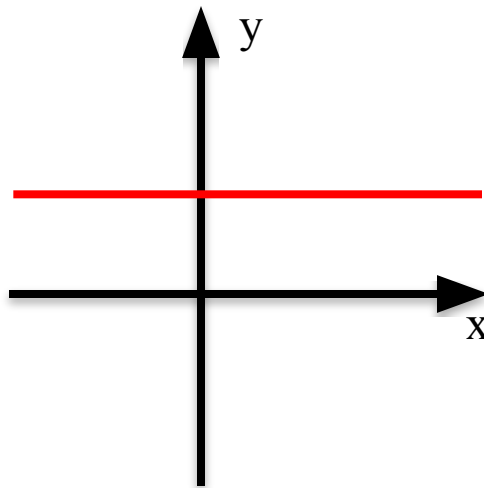
# Исследование планеты

На каком рисунке изображён график линейной функции  $y=kx$ ? Ответ объяснить.

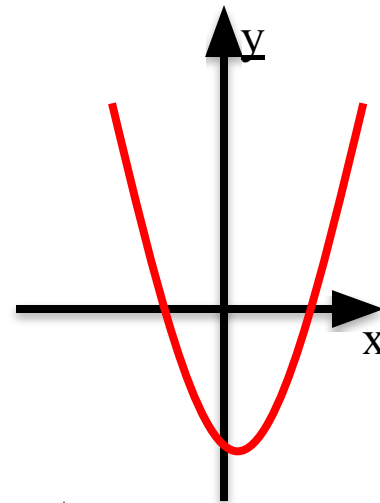
1



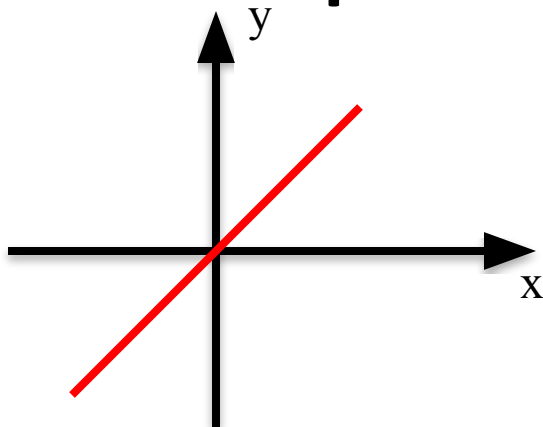
2



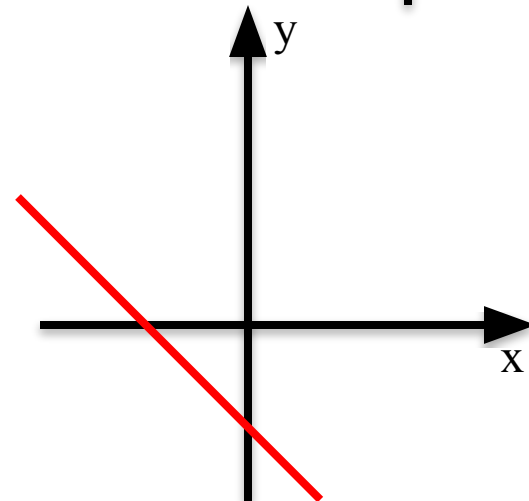
3



4

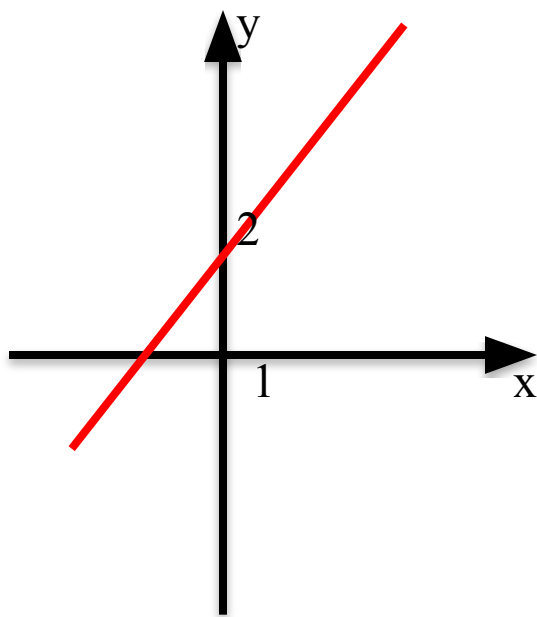


5

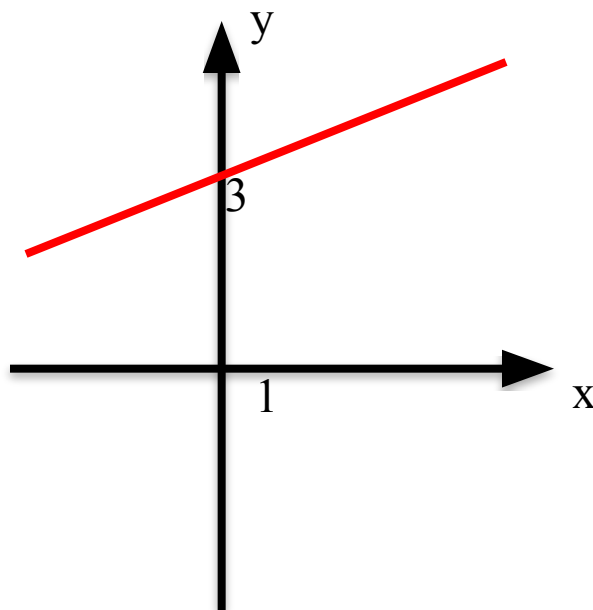


Ученик допустил ошибку при построении графика функции. На каком рисунке?

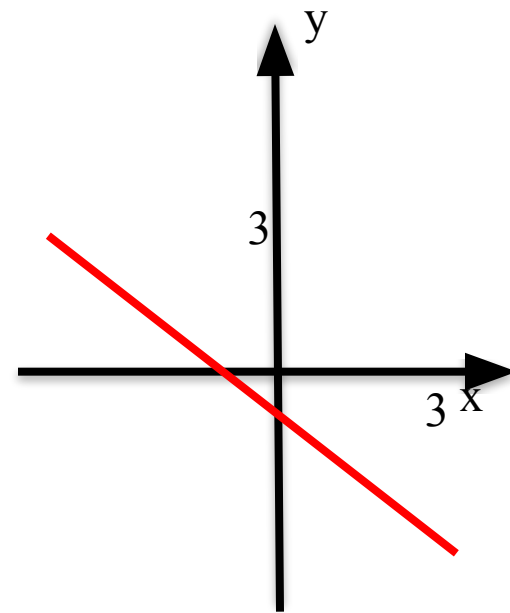
1.  $y=x+2$



2.  $y=1,5x$

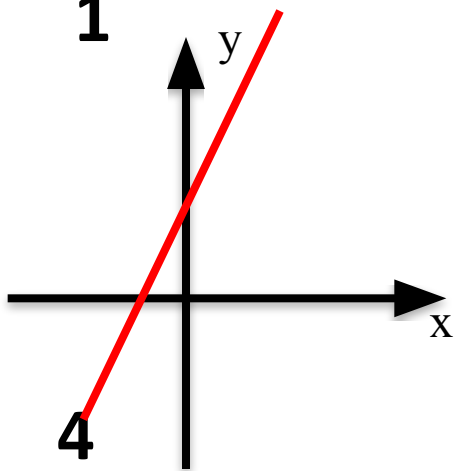


3.  $y=-x-1$

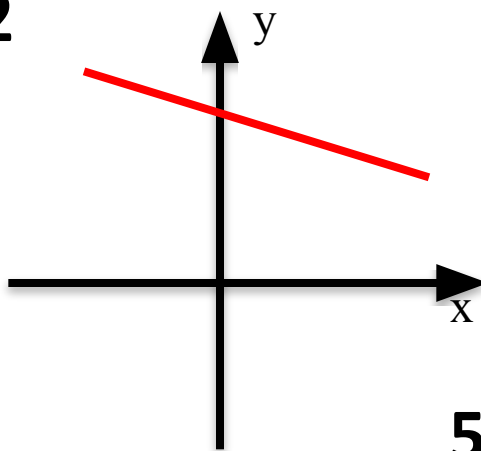


На каком рисунке коэффициент  $k$  отрицателен?

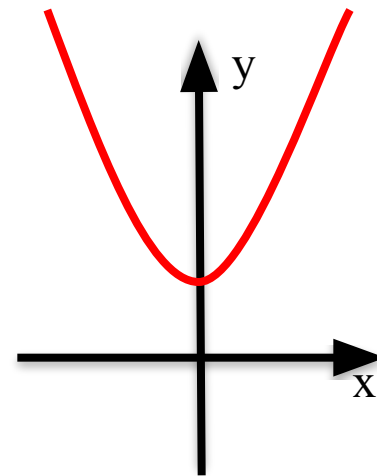
1



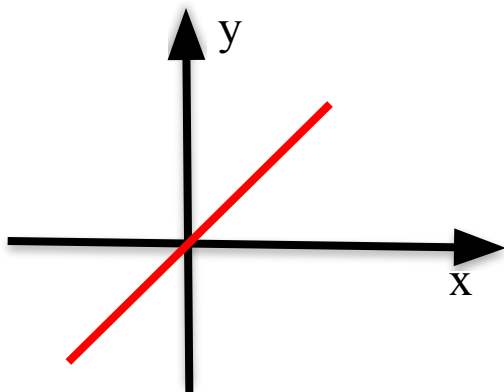
2



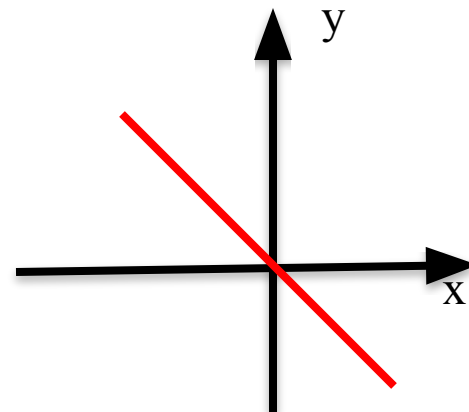
3



4



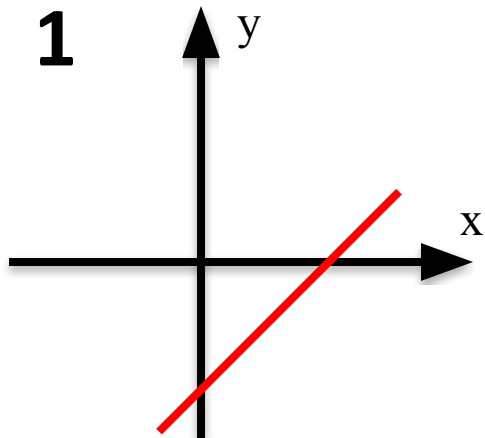
5



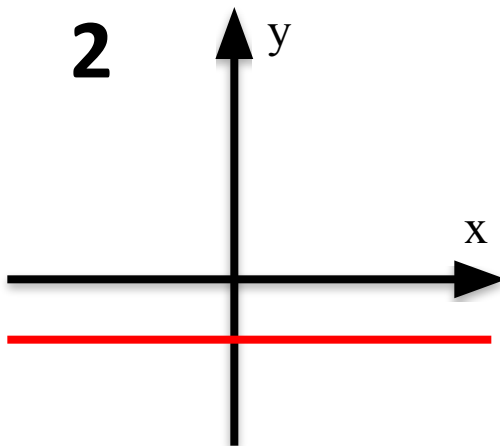


На каком рисунке свободный член  $b$  в уравнении линейной функции отрицателен?

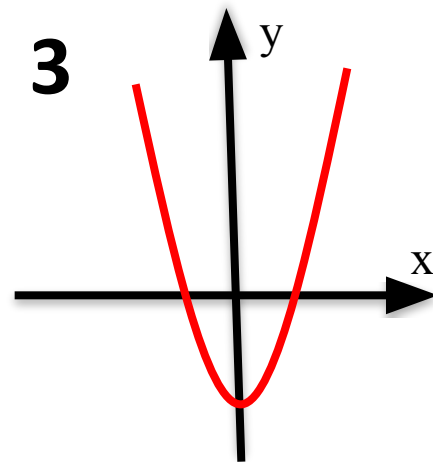
1



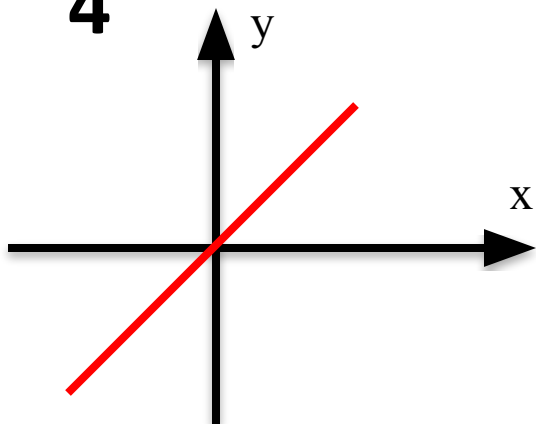
2



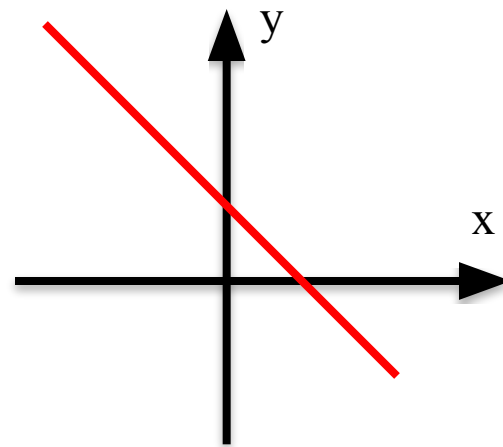
3

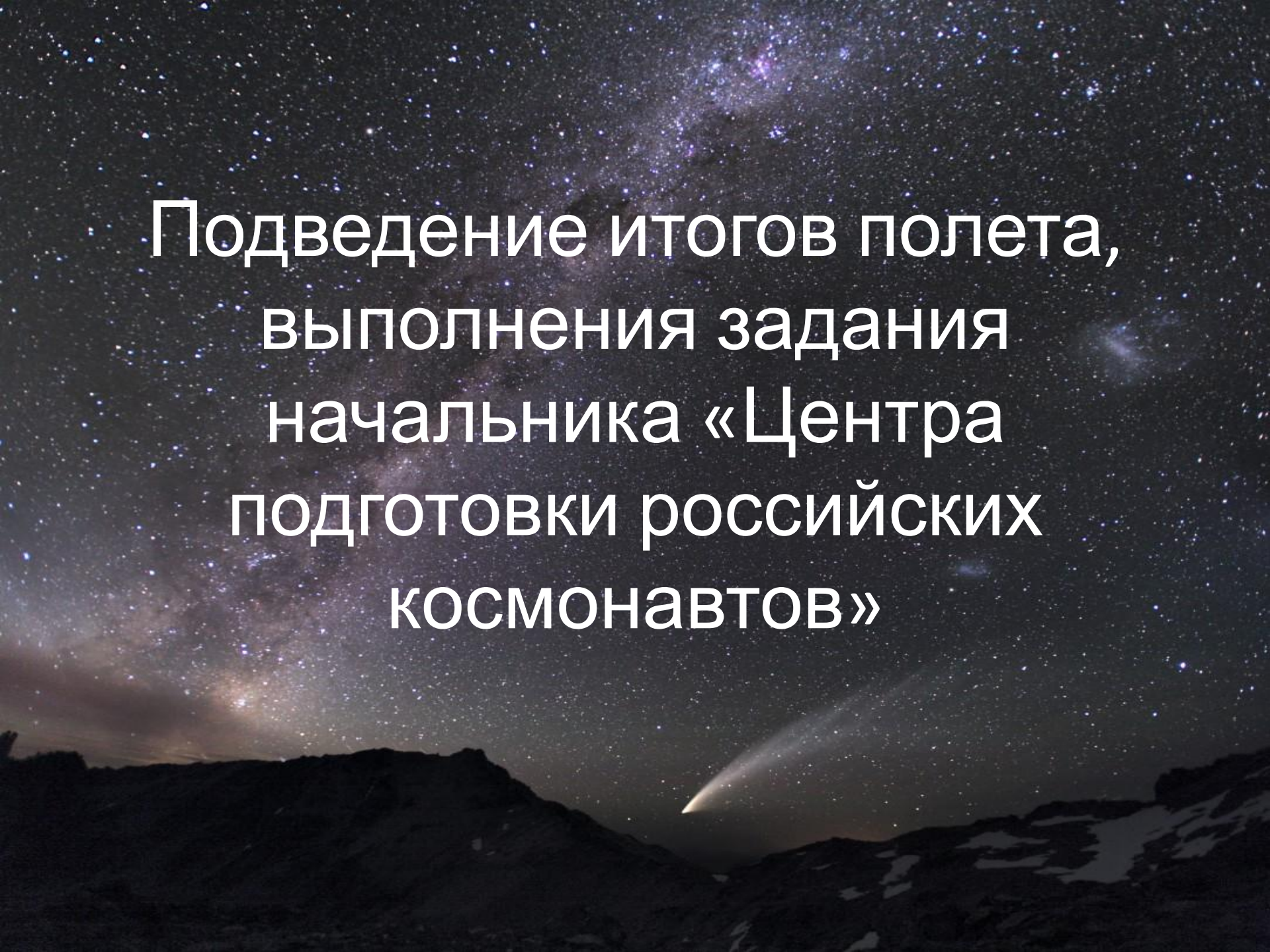


4



5





Подведение итогов полета,  
выполнения задания  
начальника «Центра  
подготовки российских  
космонавтов»

Спасибо за урок

!!!

# Использованная литература

1. Алимов Ш.А. и др. Алгебра: учебник для 7 класса общеобразовательных учреждений – М.: Просвещение, 2006.
2. Звавич Л.И. и др. Дидактические материалы по алгебре для 7 класса - М.: Просвещение, 2006.
3. Алгебра 7 класс, под редакцией Макарычев Ю.Н. и др., Просвещение, 2006

# Интернет ресурсы

[www.symbolsbook.ru/Article.aspx?...id%3D222](http://www.symbolsbook.ru/Article.aspx?...id%3D222)