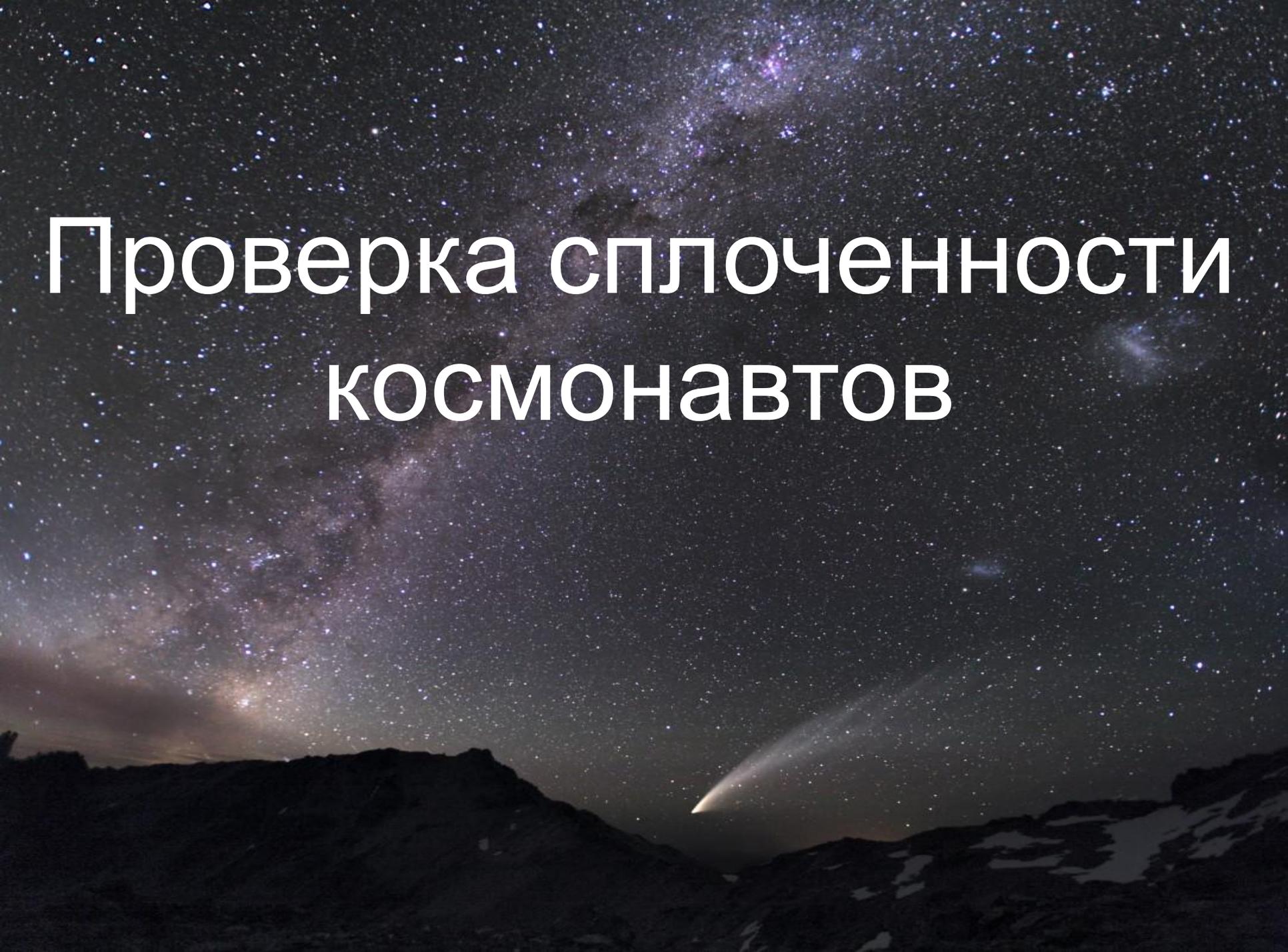
A night sky with the Milky Way galaxy visible as a bright, hazy band of stars. A comet with a long, glowing tail streaks across the dark landscape in the foreground. The text is overlaid in the center of the image.

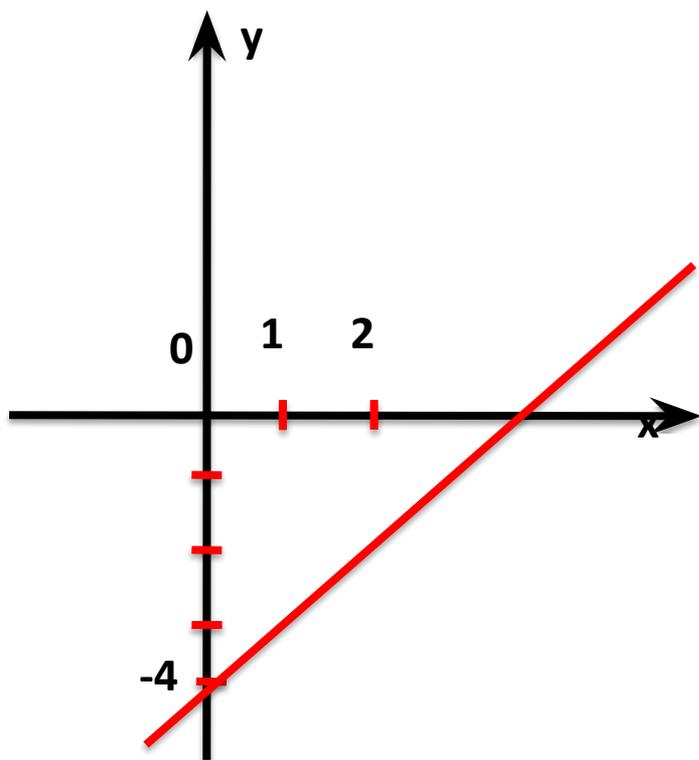
Линейная функция,
её график, свойства.

A night sky with the Milky Way galaxy visible as a dense band of stars and dust. A bright comet streaks across the lower right portion of the sky. The foreground shows dark, silhouetted mountains or hills.

Проверка сплоченности КОСМОНАВТОВ

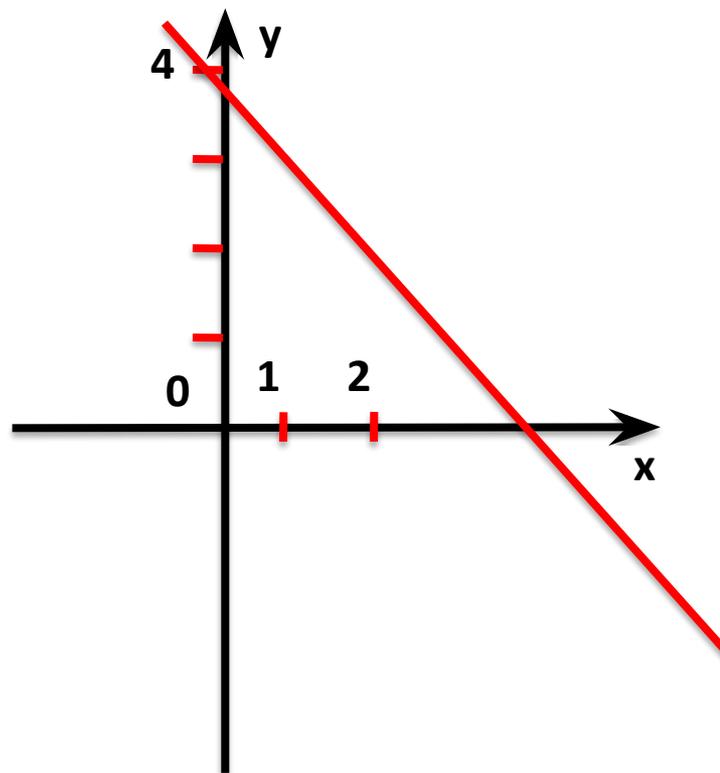
$$y=x-4$$

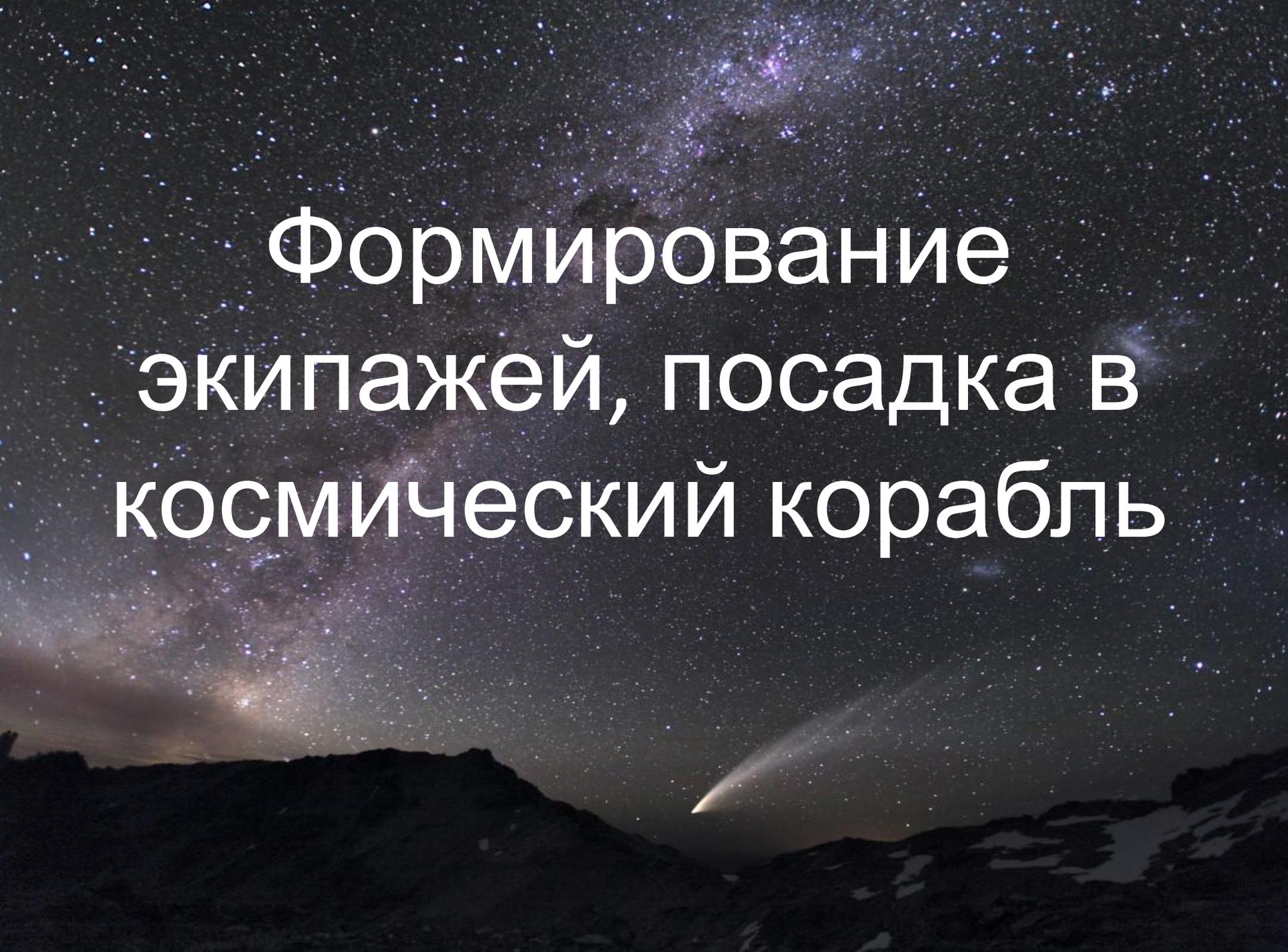
I вариант



$$y=-x+4$$

II вариант

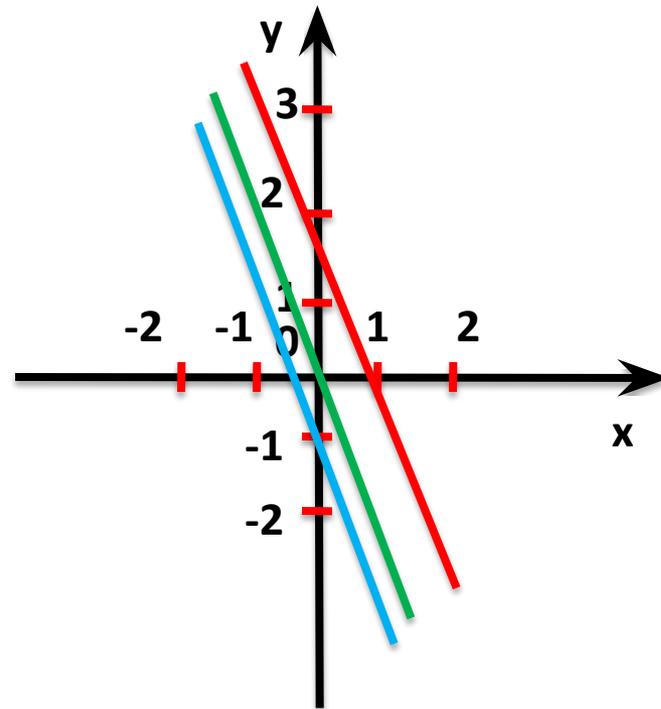
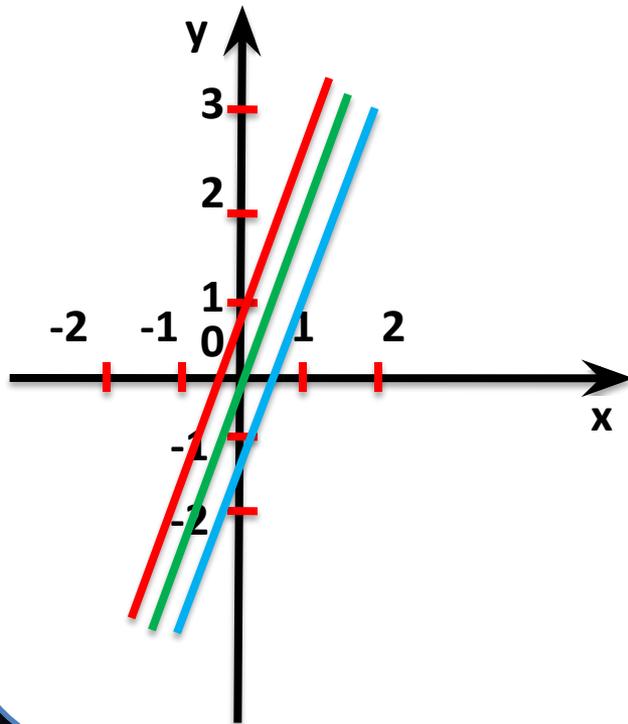


The background of the image is a night sky filled with stars and the Milky Way galaxy. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape, possibly a mountain range or a valley, under a dark sky.

Формирование экипажей, посадка в космический корабль

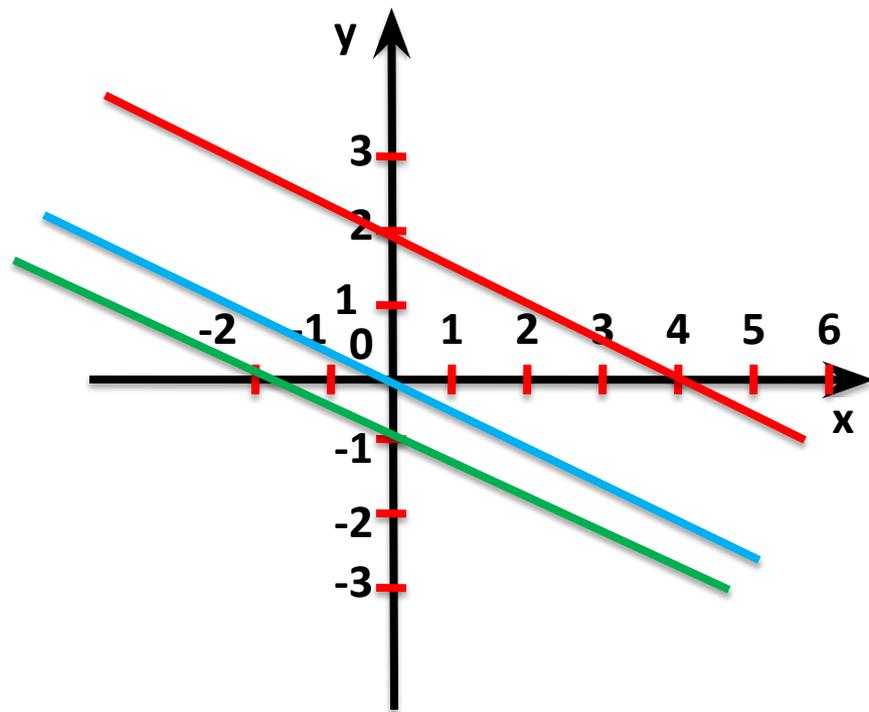
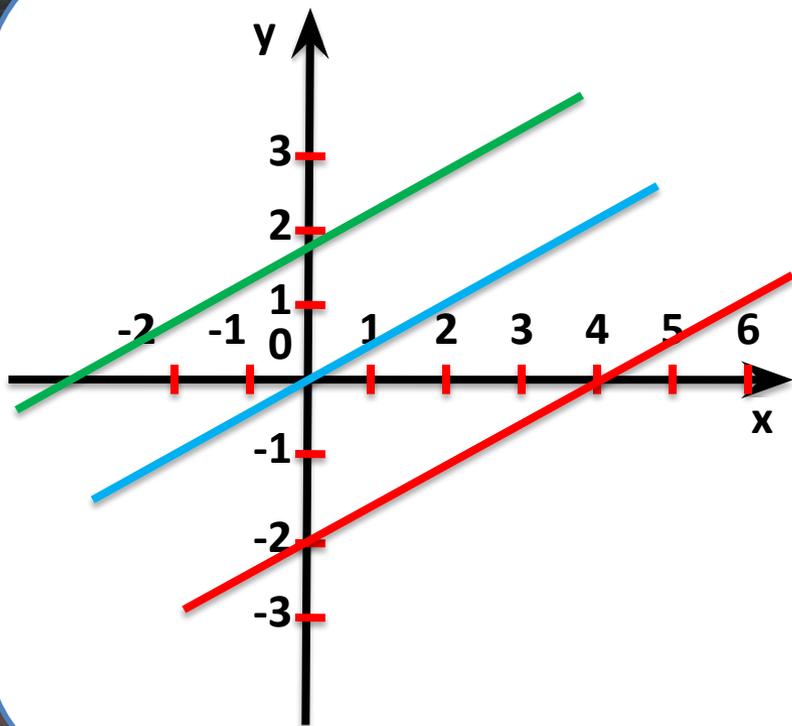
$$y=2x \quad y=2x+1$$
$$y=2x-1$$

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



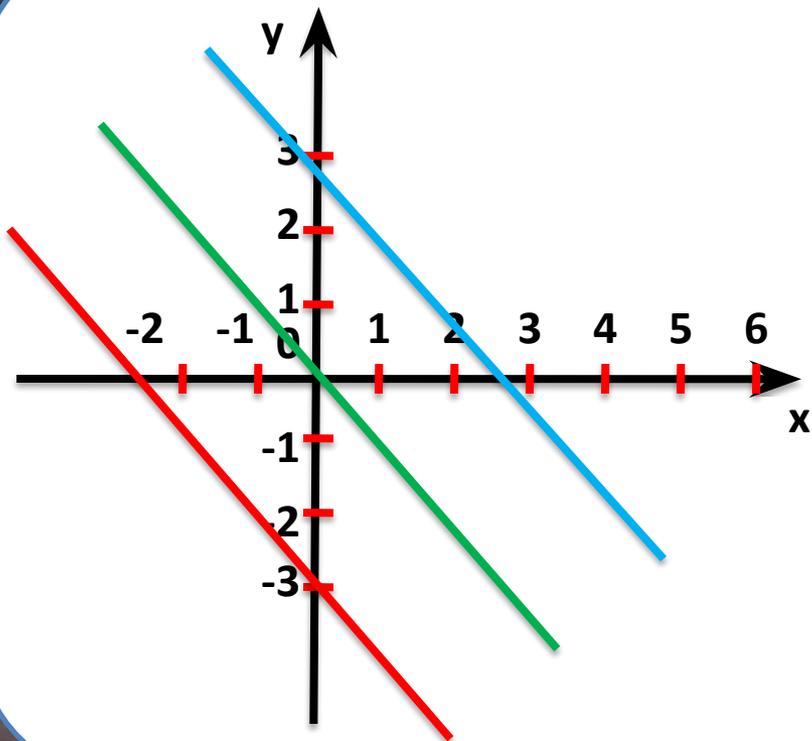
$$y=0,5x+2 \quad y=0,5x-2$$
$$y=0,5x$$

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



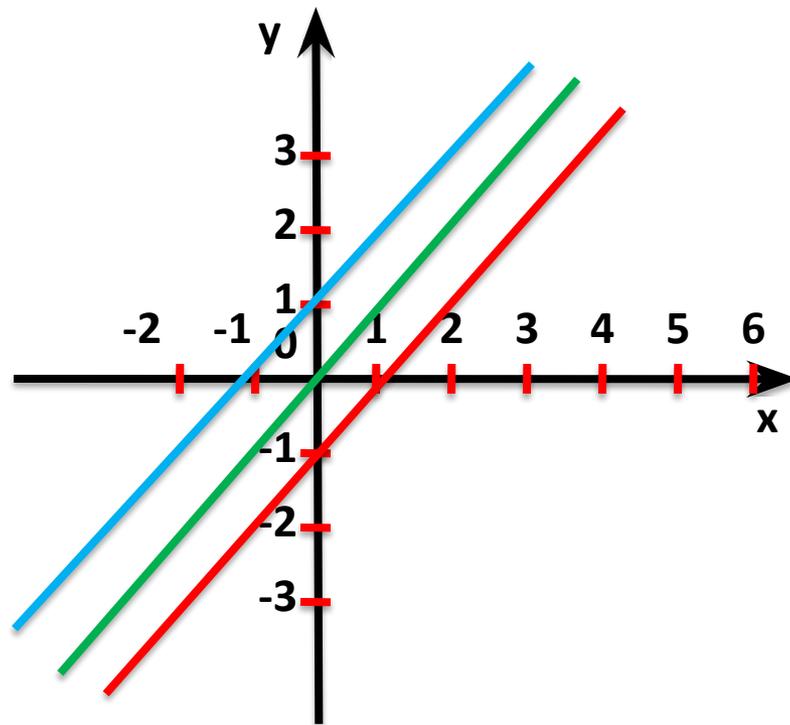
$$y = -x \quad y = -x + 3$$

$$y = -x - 3$$

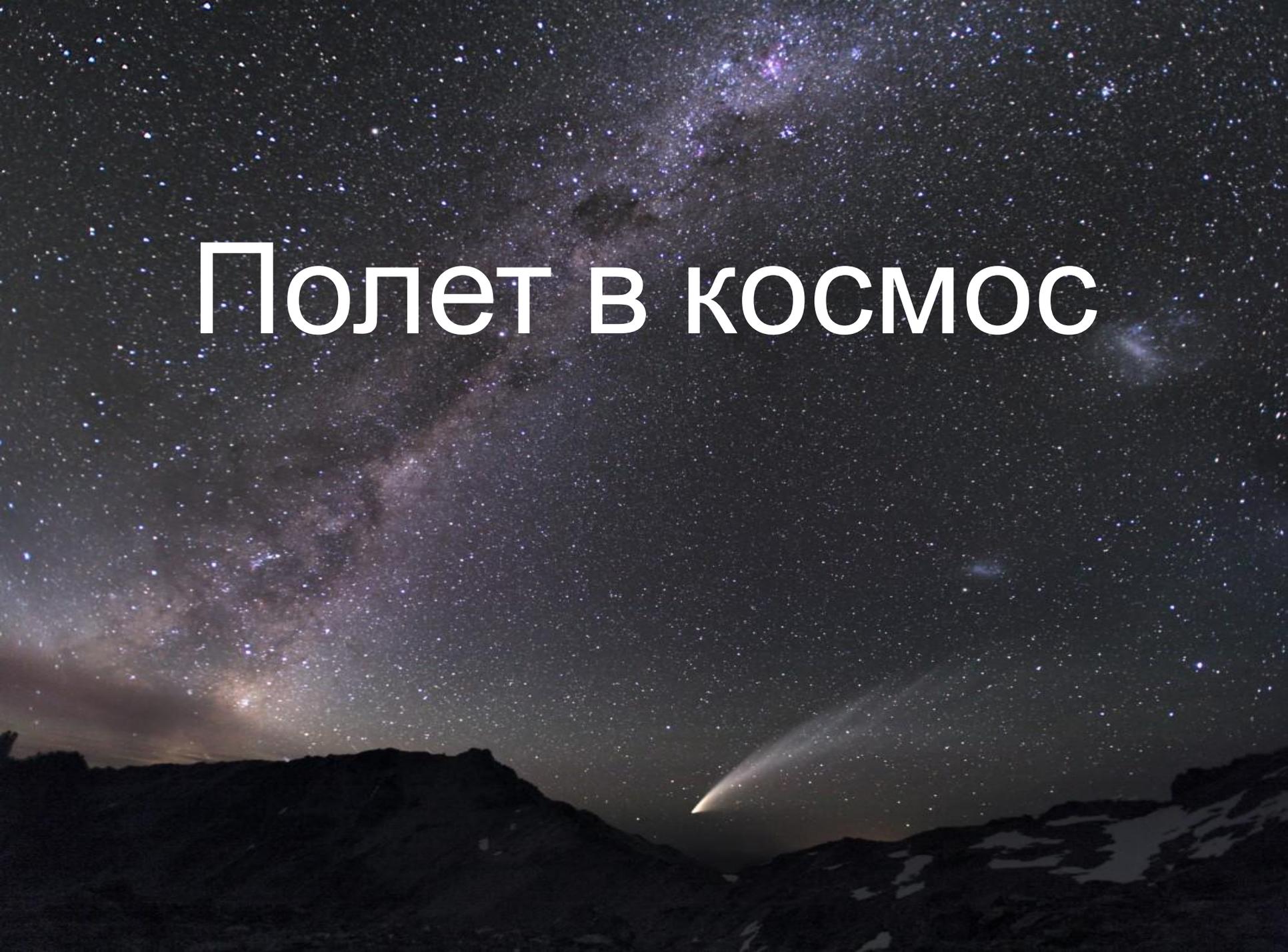


$$y = x + 1 \quad y = x - 1$$

$$y = x$$



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 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.

Найти уравнения линейных функций

$$y = -x + 0,2; \quad y = 12,4x - 115,7; \quad y = -9x - 118;$$

$$y = 5,04x;$$

$$y = -5,04x; \quad y = 126,35 + 8,75x; \quad y = x - 0,2;$$

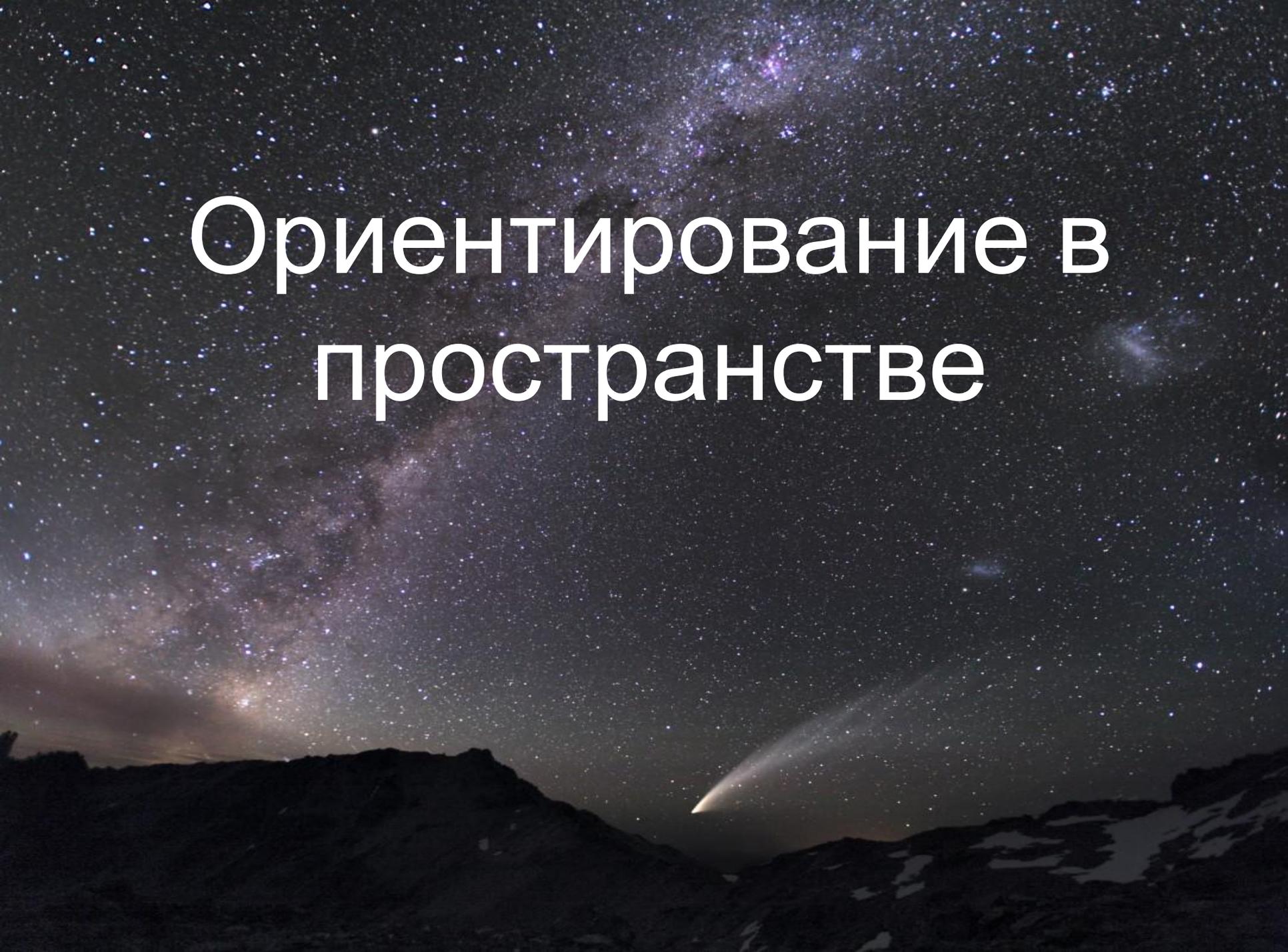
$$y = -x : 8;$$

$$y = -0,0005x; \quad y = 133,133133x; \quad y = -10,001x;$$

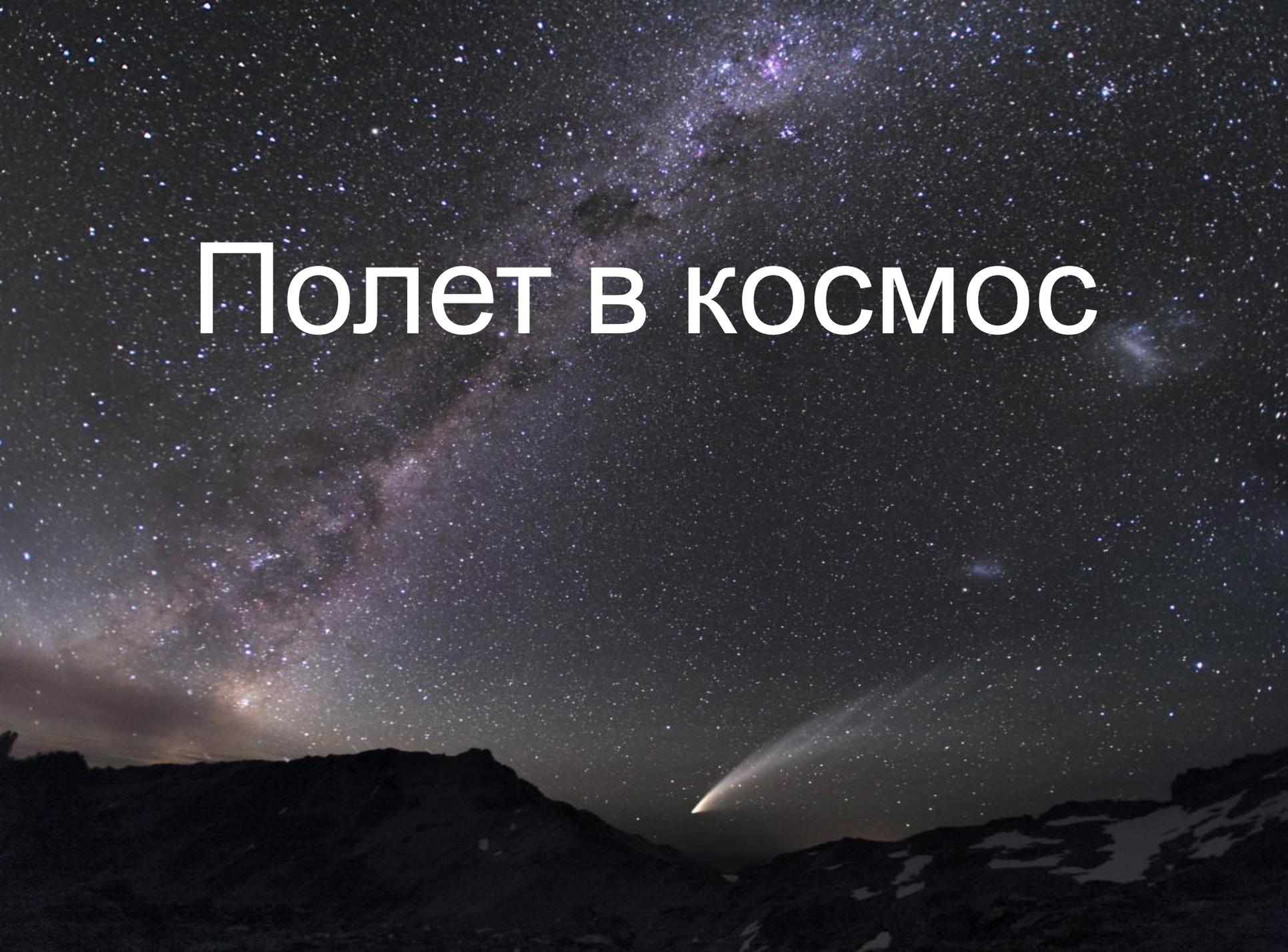
$$y = 2 : x;$$

$$y = -0,0049; \quad y = 62,4.$$

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 landscape, possibly a mountain range or a valley, with a bright comet streaking across the sky in the lower right quadrant. The overall scene is dark and starry, with a focus on celestial navigation.

Полет в космос



1 экипаж

$(0;-1); k>0;$
I, III –

четверть
;

4 ^{k=3}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

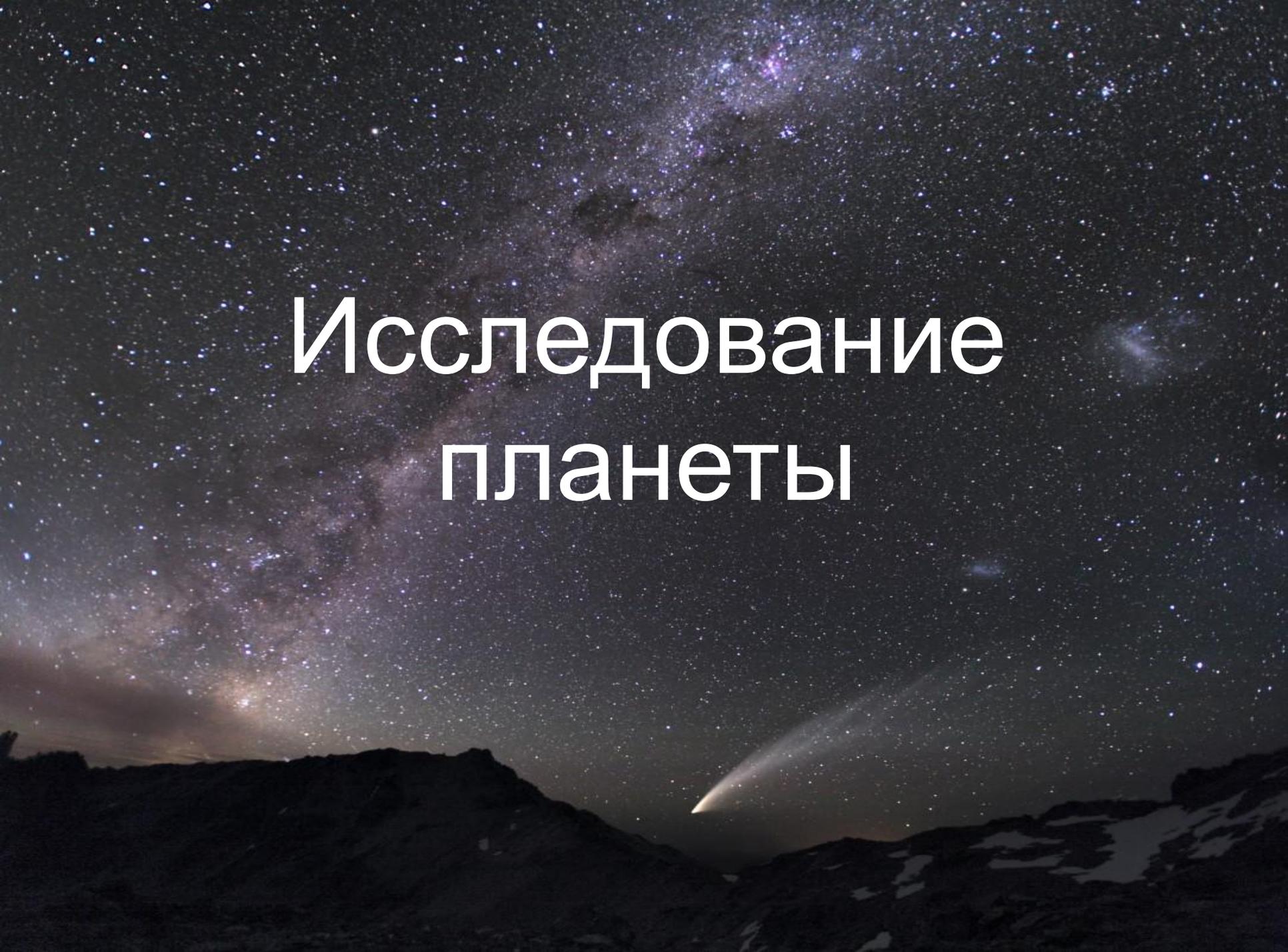
$(0;1); k<0;$
II, IV –

четверть;
 $k=-2.$

6 экипаж

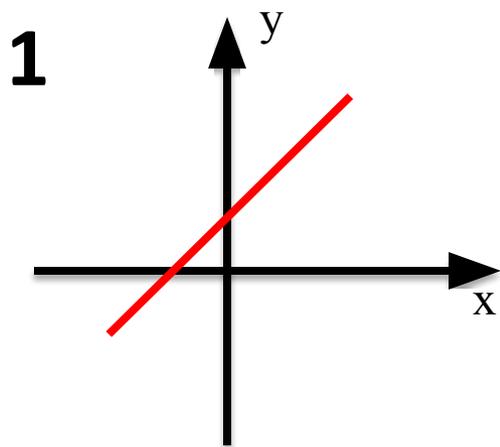
$(0;-2); k>0;$
I, III –

четверть;
 $k=2.$

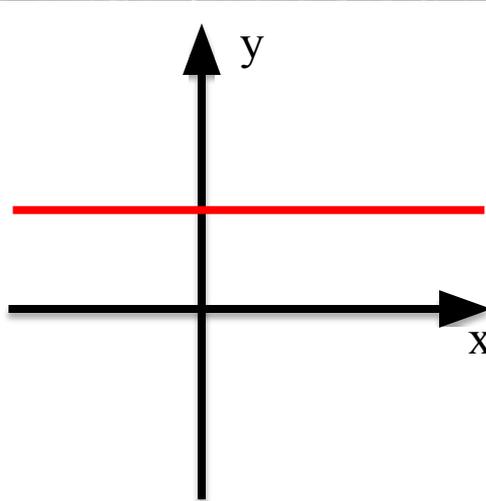
A night sky photograph featuring the Milky Way galaxy, a comet streaking across the lower right, and a dark mountain range in the foreground.

Исследование планеты

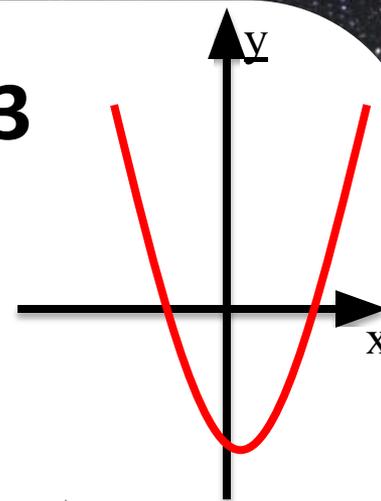
На каком рисунке изображён график линейной функции $y=kx$? Ответ объяснить.



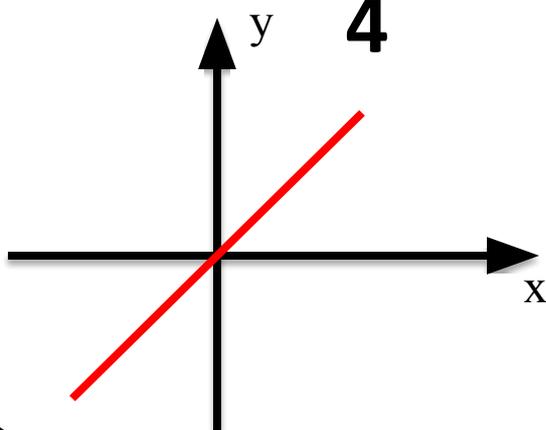
2



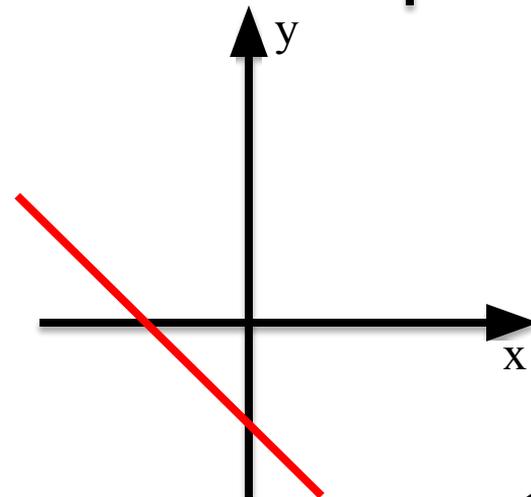
3



4

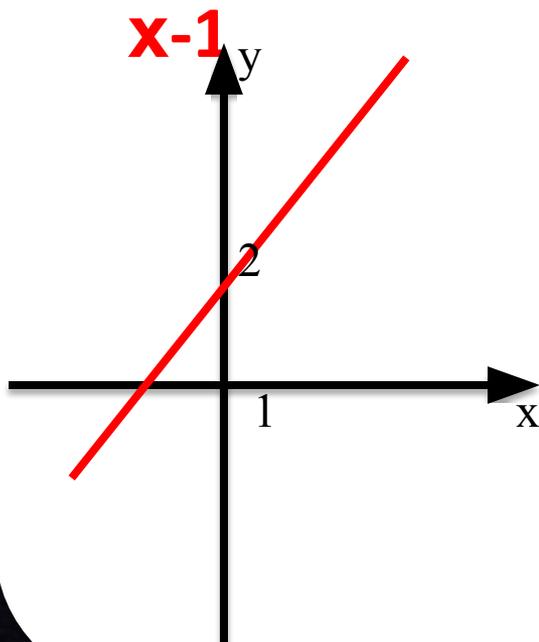


5

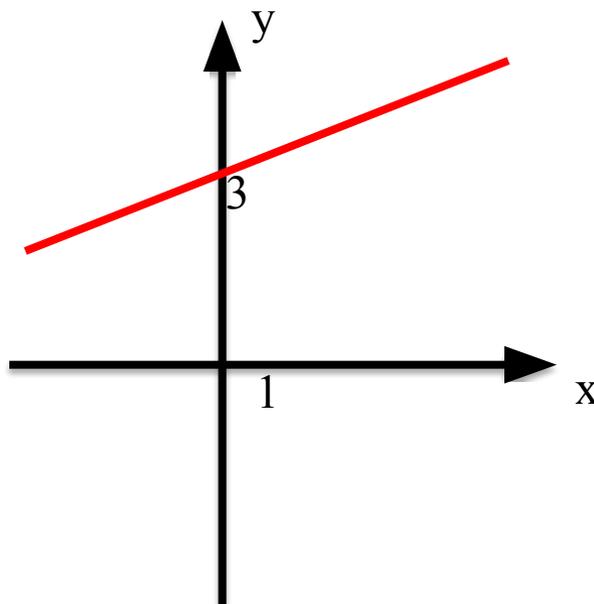


Ученик допустил ошибку при построении графика функции. На каком рисунке?

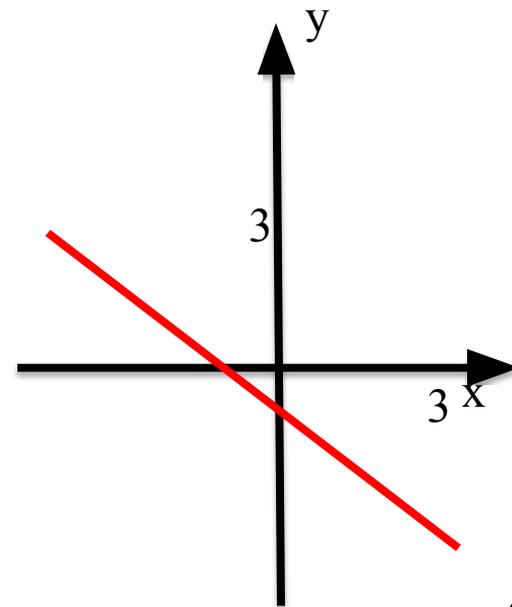
1. $y=x+2$



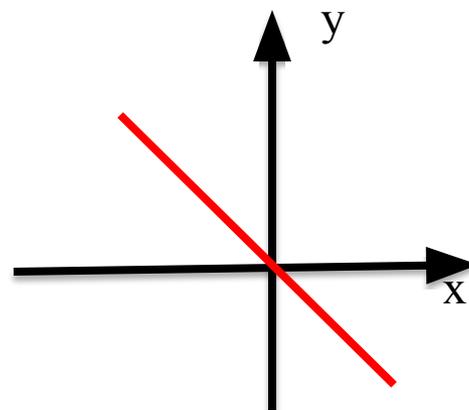
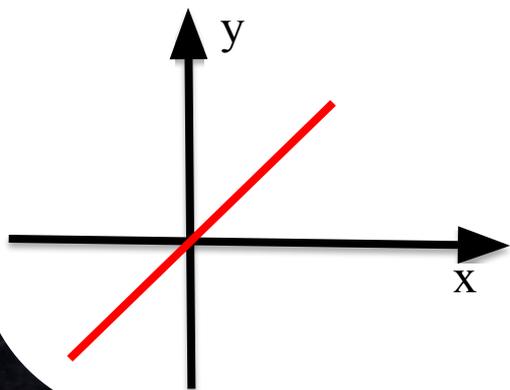
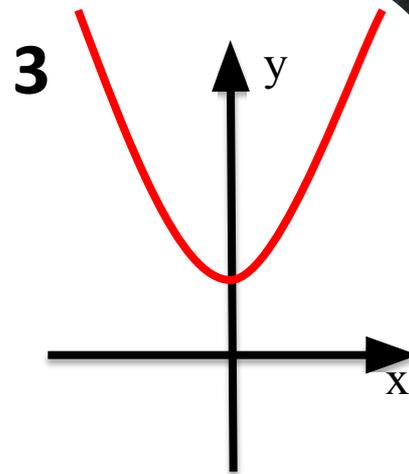
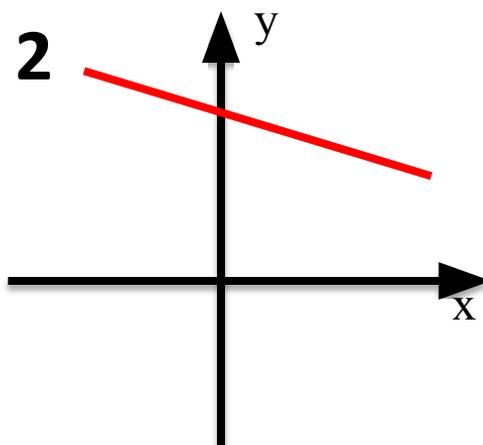
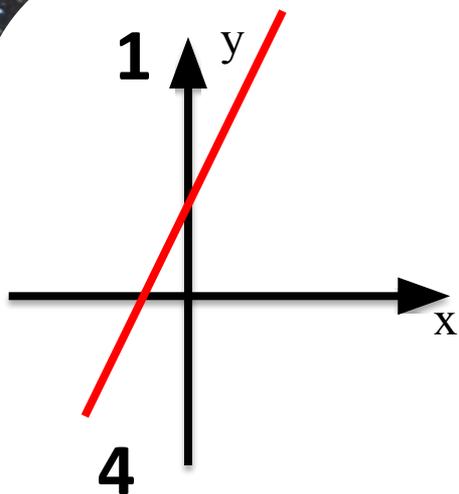
2. $y=1,5x$



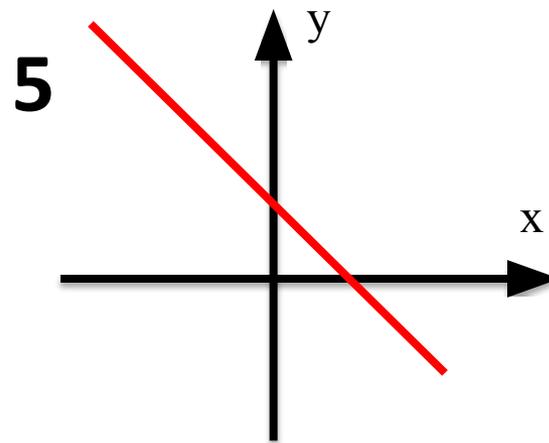
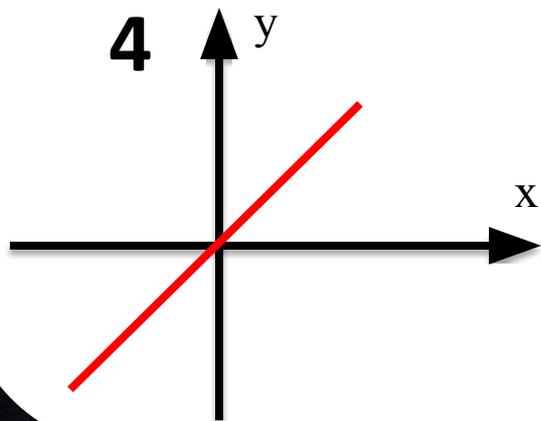
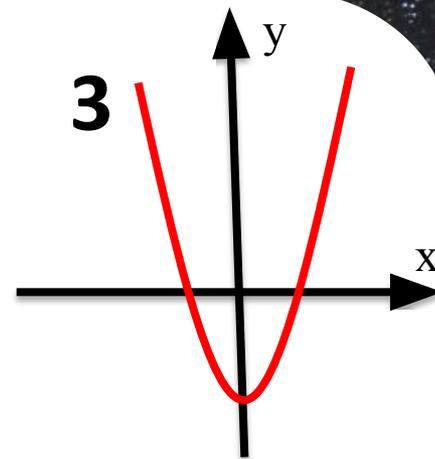
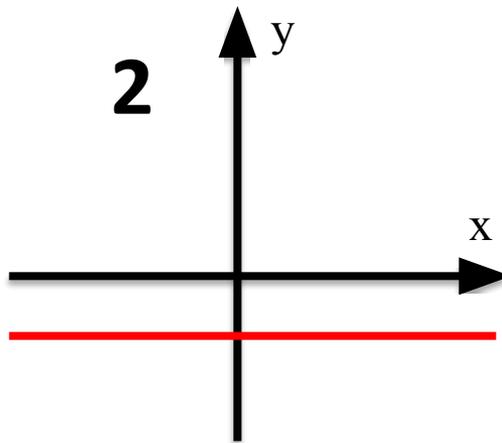
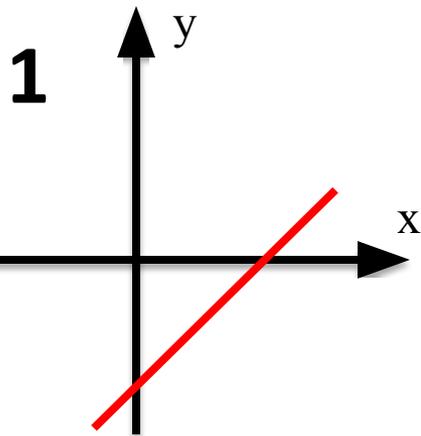
3. $y=-$

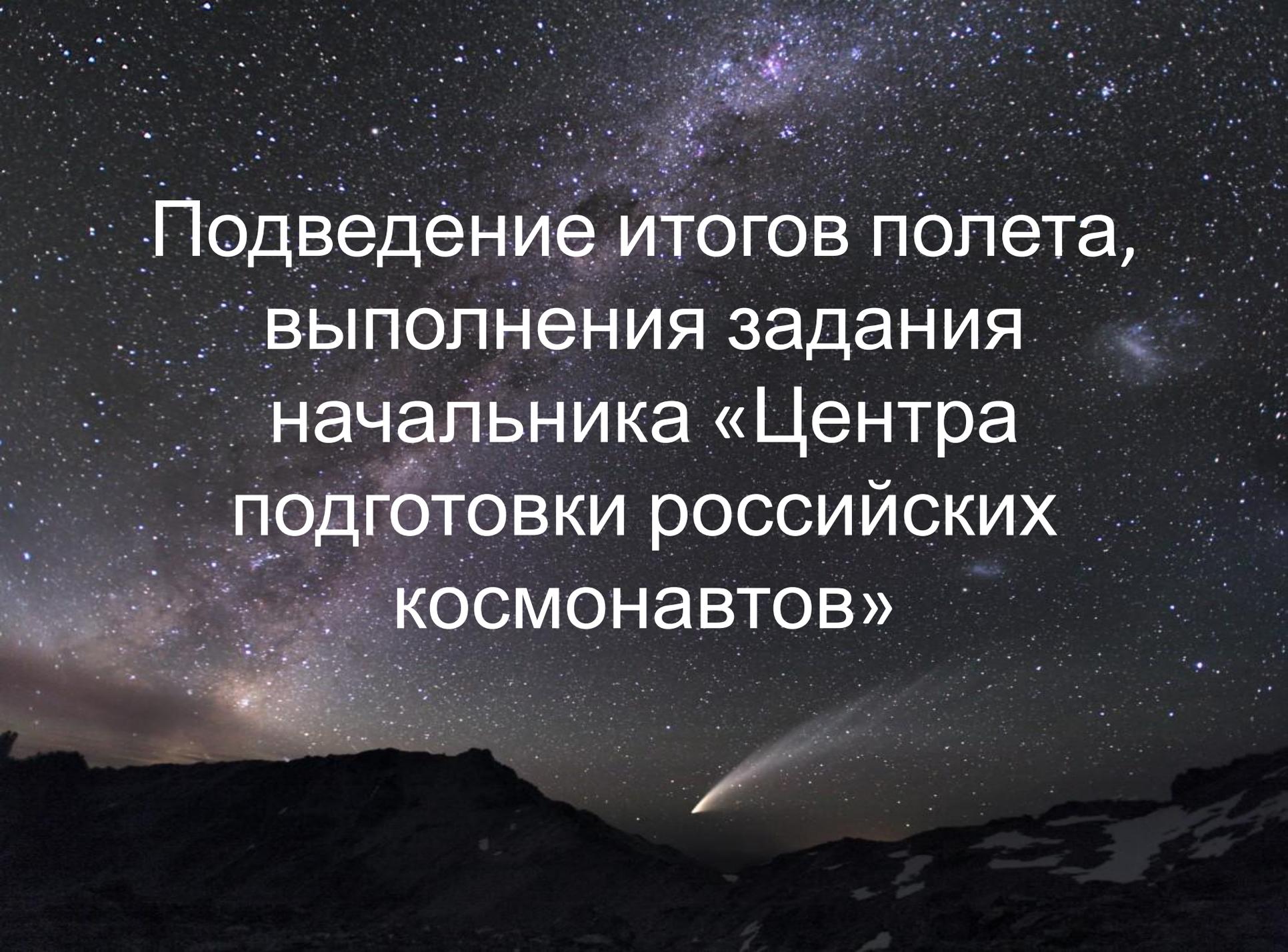


На каком рисунке коэффициент k отрицателен?



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





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