**Задача №2.**

Постройте профиль рельефа местности по линии А – В. Для этого перенесите основу для построения профиля на бланк ответов № 2, используя горизонтальный масштаб – в 1 см 50 м и вертикальный масштаб – в 1 см 10 м. Укажите на профиле знаком «Х» положение шоссе.





В этом задании дается и горизонтальный и вертикальный масштаб. Надо только высчитать длину профиля.

Масштаб карты в 1 см 100 м. От А до В 7 см. 7 умножить на 100 =700 м.

В условии горизонтальный масштаб в 1 см 50 м. 700/50=14 см. Такова длина профиля.

160 160

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

Далее делаем все как в 1 задаче. Высчитываем каждую горизонталь, находим с помощью масштаба расстояние до каждой горизонтали или объекта.

Горизонтали считаем с главной горизонтали 150 м. К реке идет на убывание каждая на 5 м. Значит первая к точке А – горизонталь 115 м. И расстояние до нее

1 см на карте – 100 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

2-я точка – следующая горизонталь 120 м.

Расстояние до нее – 8 мм на карте - 80 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

3-я точка – 3-я горизонталь 125 м.

Расстояние до нее – 4 мм на карте – 40 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

4-я точка – 4-я горизонталь 130 м.

Расстояние до нее – 3 мм на карте – 30 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

5-я точка – 5-я горизонталь 135 м.

Расстояние до нее – 2 мм на карте – 20 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

6-я точка – 6-я горизонталь 140 м.

Расстояние до нее – 2 мм на карте – 20 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

7-я точка – горизонталь 145 м.

Расстояние до нее – 7 мм на карте – 70 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

8-я точка – главная горизонталь 150 м.

Расстояние до нее 5 мм на карте – 50 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

9-я точка – горизонталь 155 м.

Расстояние до нее 1,3 см на карте – 130 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

10-я точка – обратная сторона холма, эта же горизонталь 155 м.

Расстояние до нее – 11 см на карте – 110 м.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

И последняя точка – точка Б. Ее высота отмечена, а расстояние до нее 50 м (5 мм на карте).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |

Также было задание отметить положение шоссе. Оно находится между 6 и 7 горизонталями.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **В**  150 |
| 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |
| 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 130 |
| 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| **А**  110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |