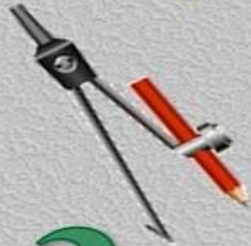
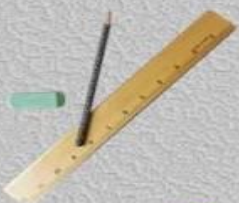




22.10.18

Классная работа

5



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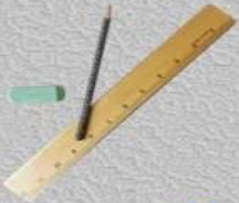


Измерение

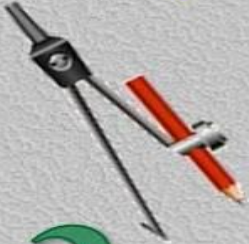
углов **5** класс



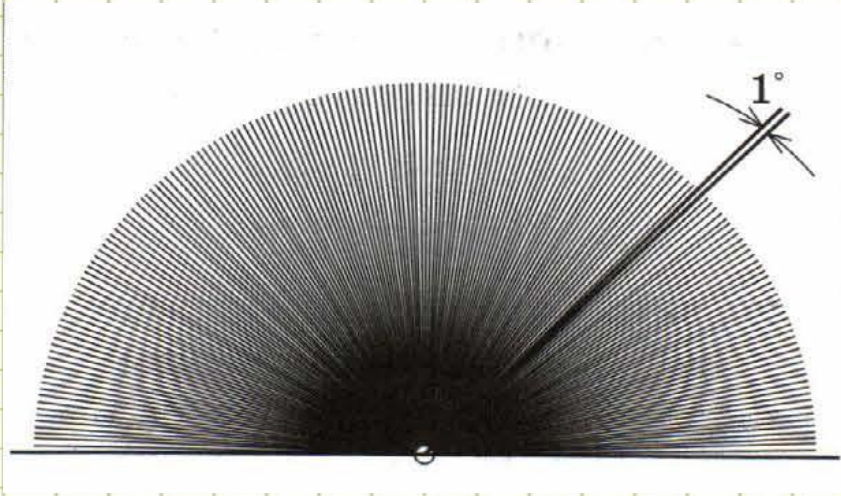
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Угол, образованный двумя соседними лучами, выбирают за единицу измерения.

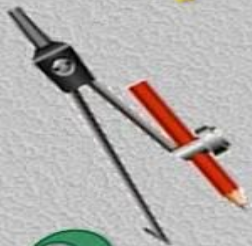
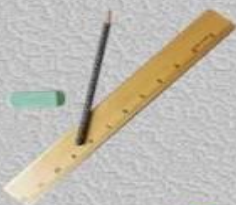
Его величину называют градусом.

Измерить угол значит посчитать, сколько
единиц в нем.

**Для измерения углов используют специальный
прибор – транспортир.**



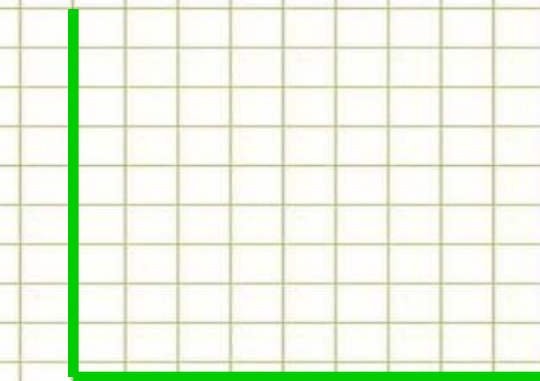
5



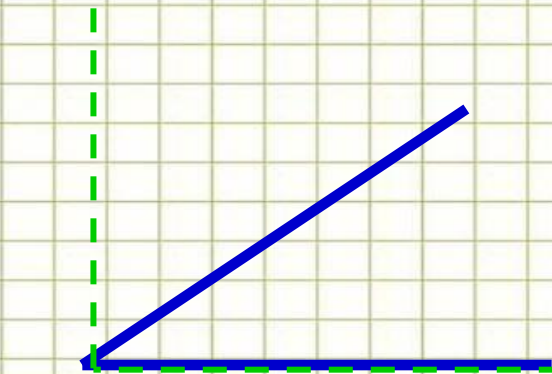
3



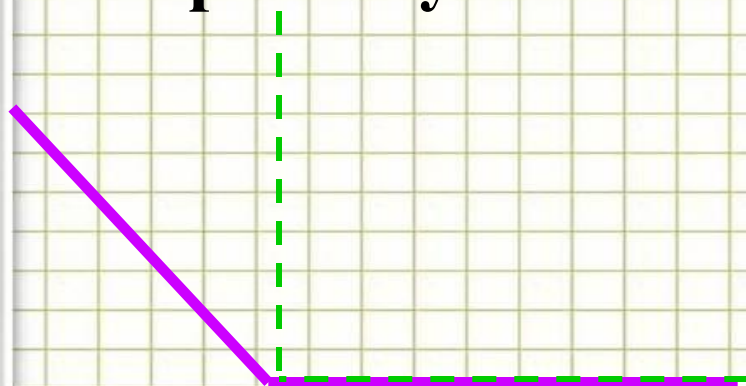
Виды углов.



прямой угол



острый угол



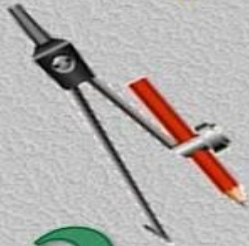
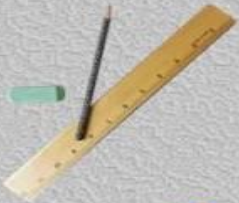
тупой угол



развернутый угол



5

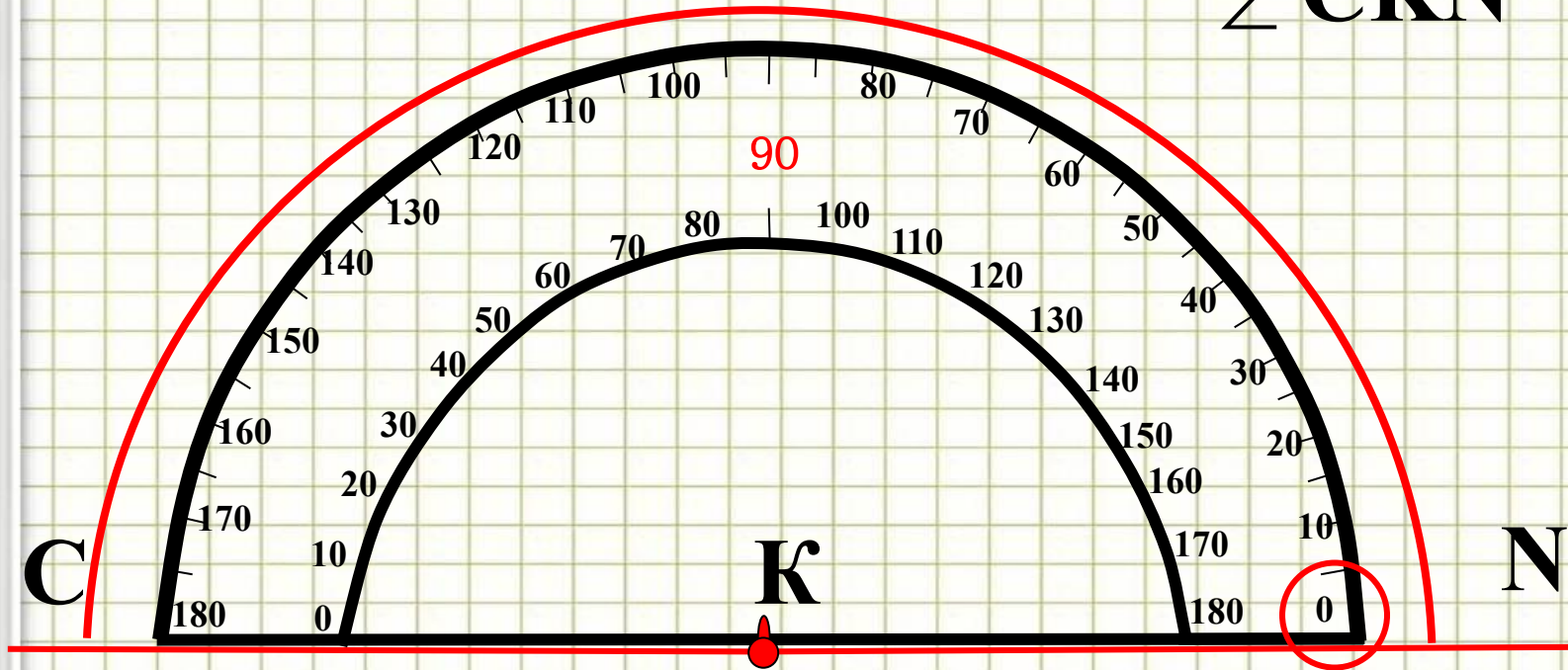


3



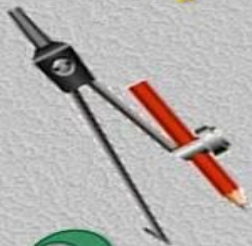
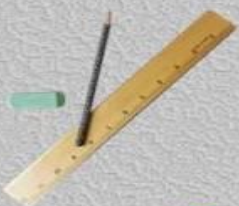
Развернутый угол – это
угол, стороны которого образуют
прямую.

$$\angle CKN = 180^{\circ}$$





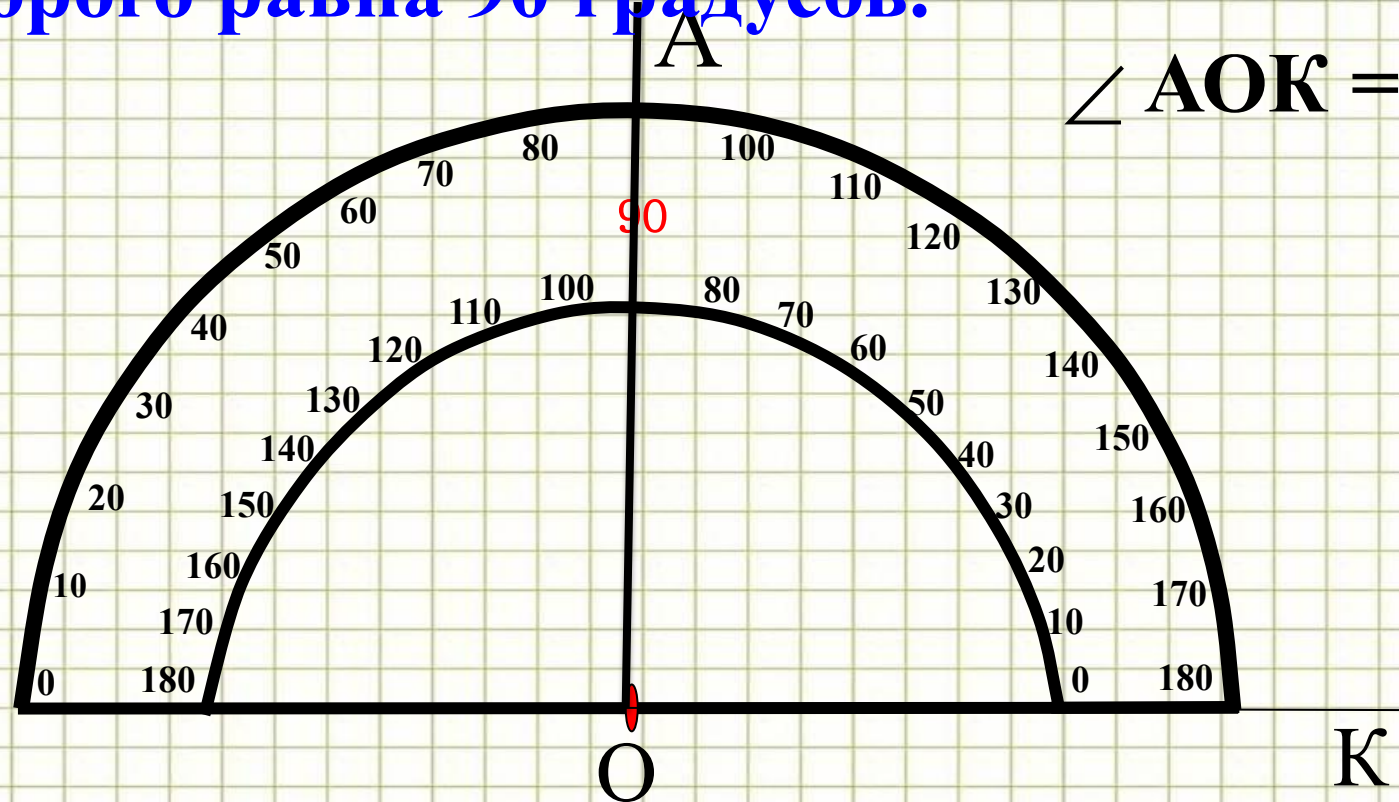
5



3

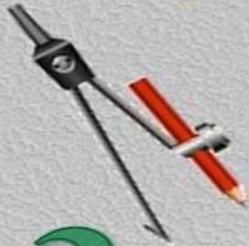
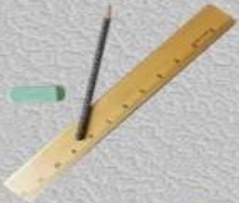


Прямой угол - это угол, градусная
мера
которого равна 90 градусов.





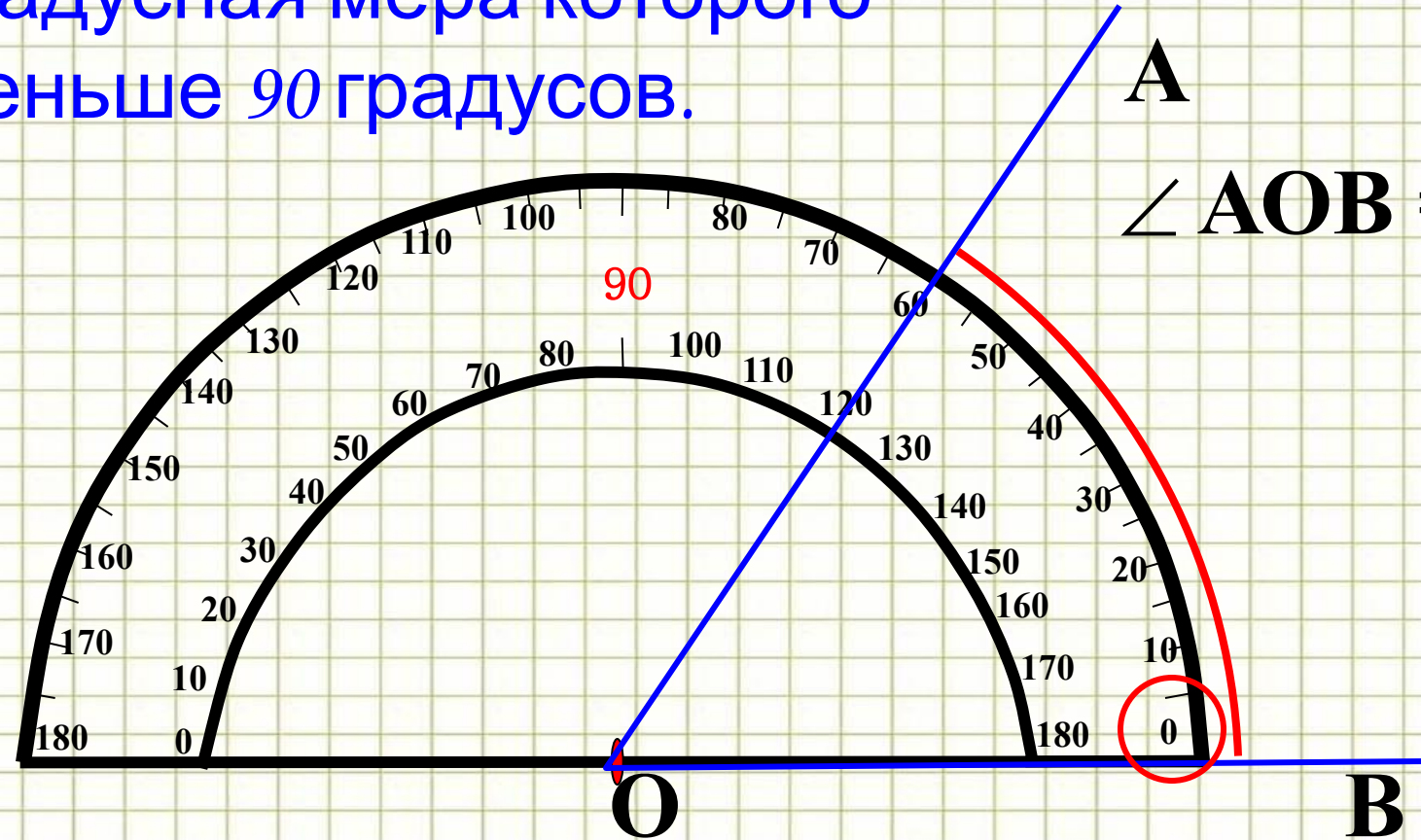
5



3



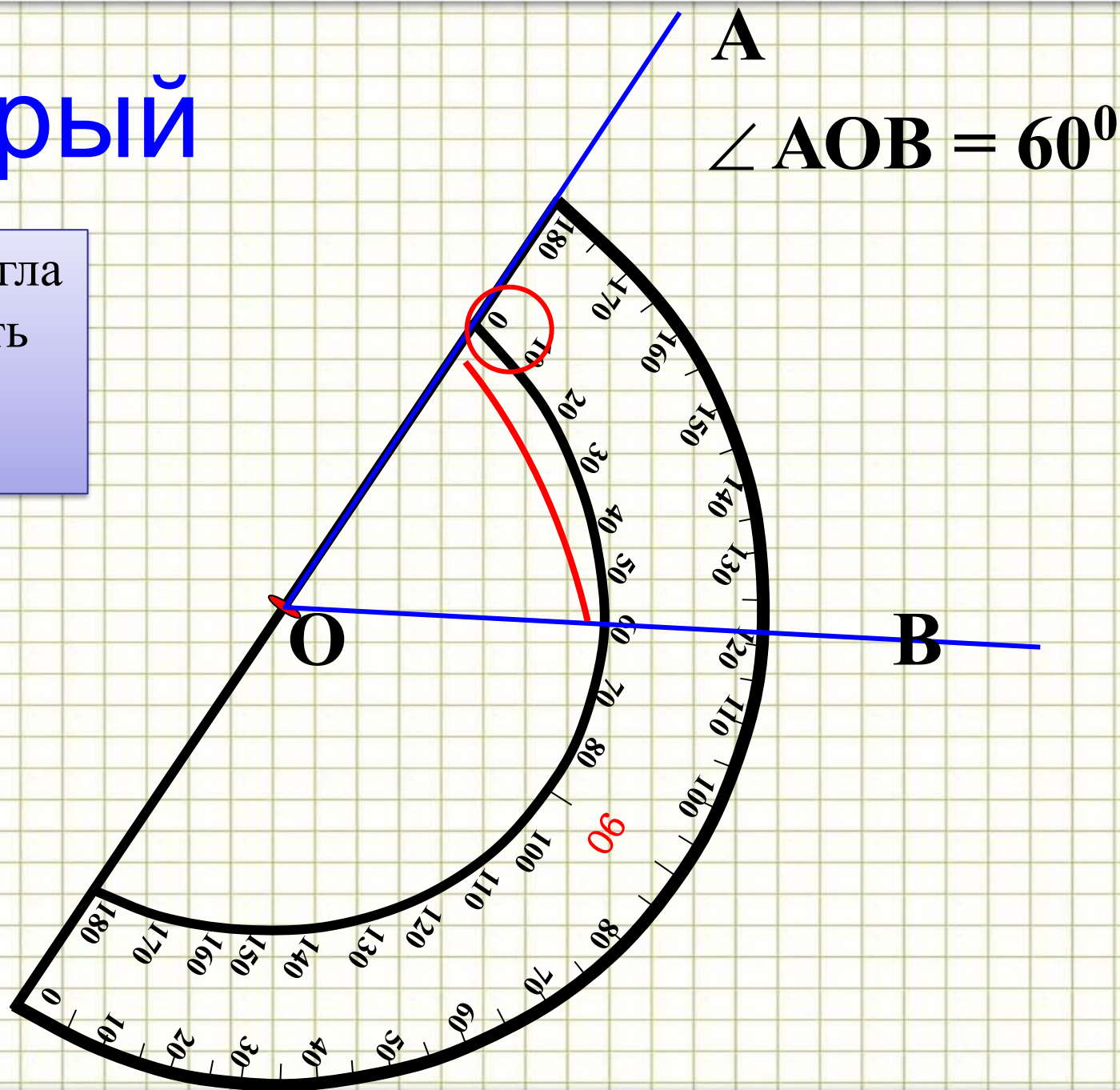
Острый угол – это угол,
градусная мера которого
меньше 90 градусов.





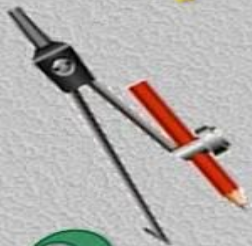
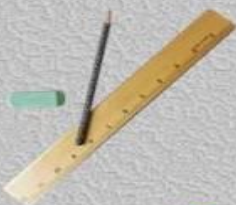
Острый

Для измерения угла
можно приложить
транспортир
по другому.





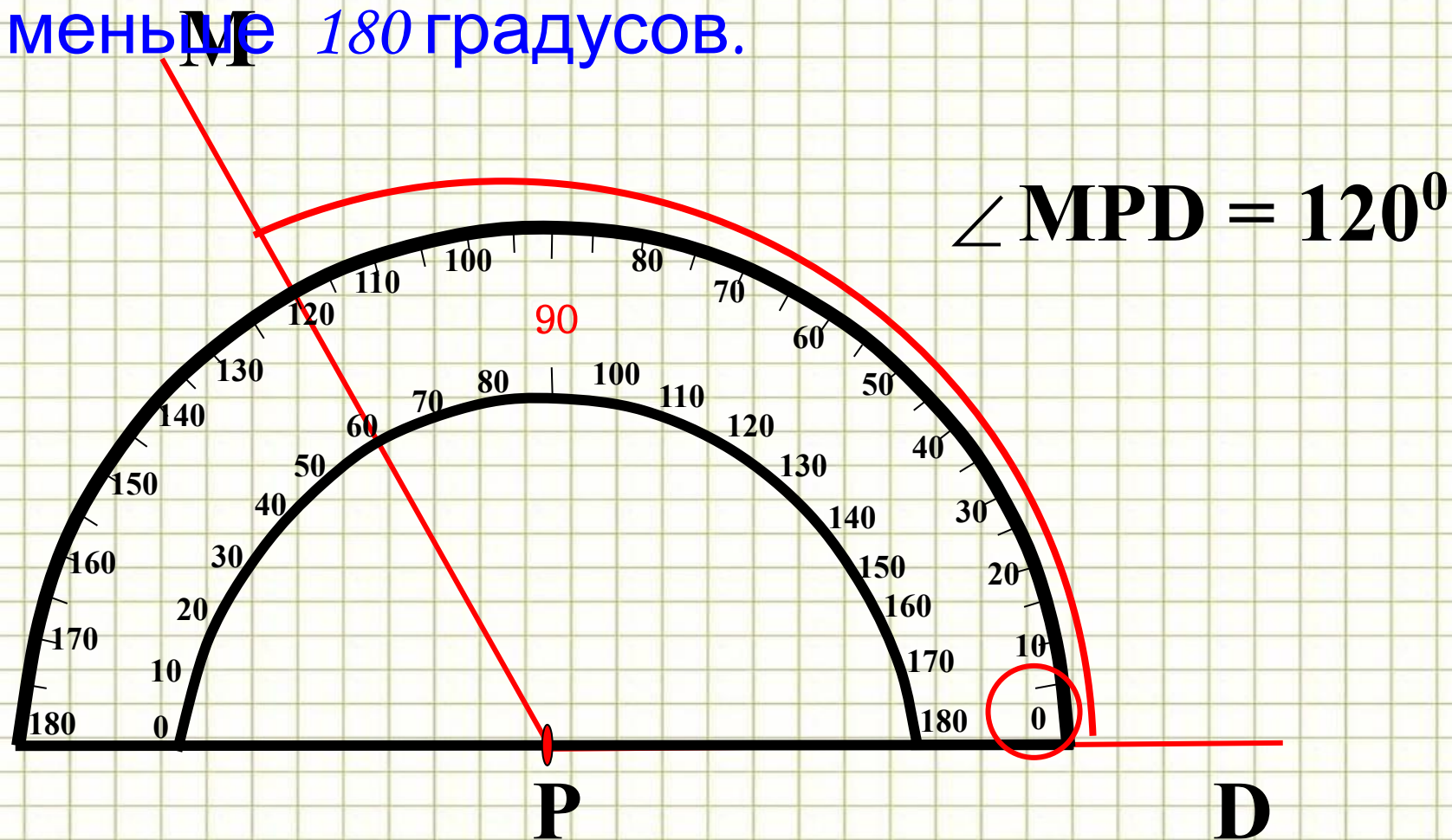
5



3

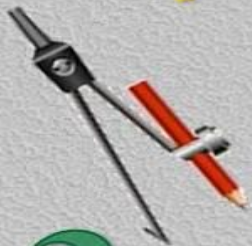
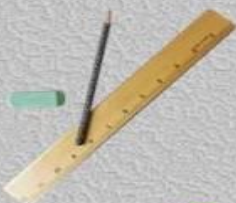


Тупой угол — это угол, градусная мера которого больше 90 градусов, но меньше 180 градусов.





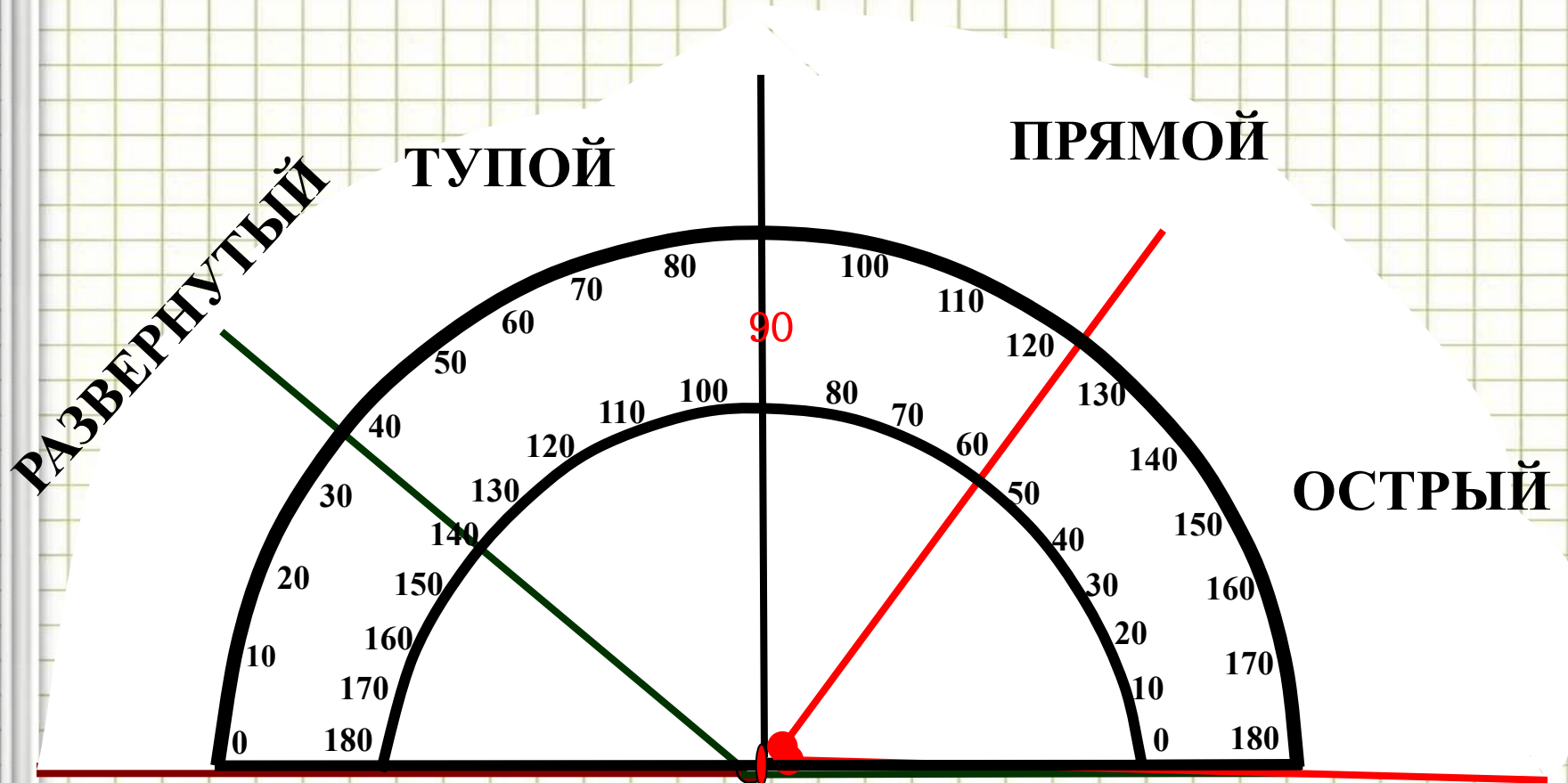
5



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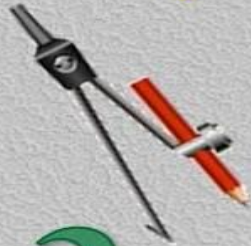
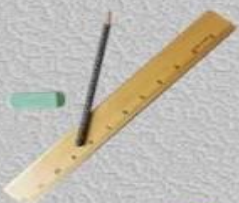


Острый, прямой, тупой, развернутый углы.





5

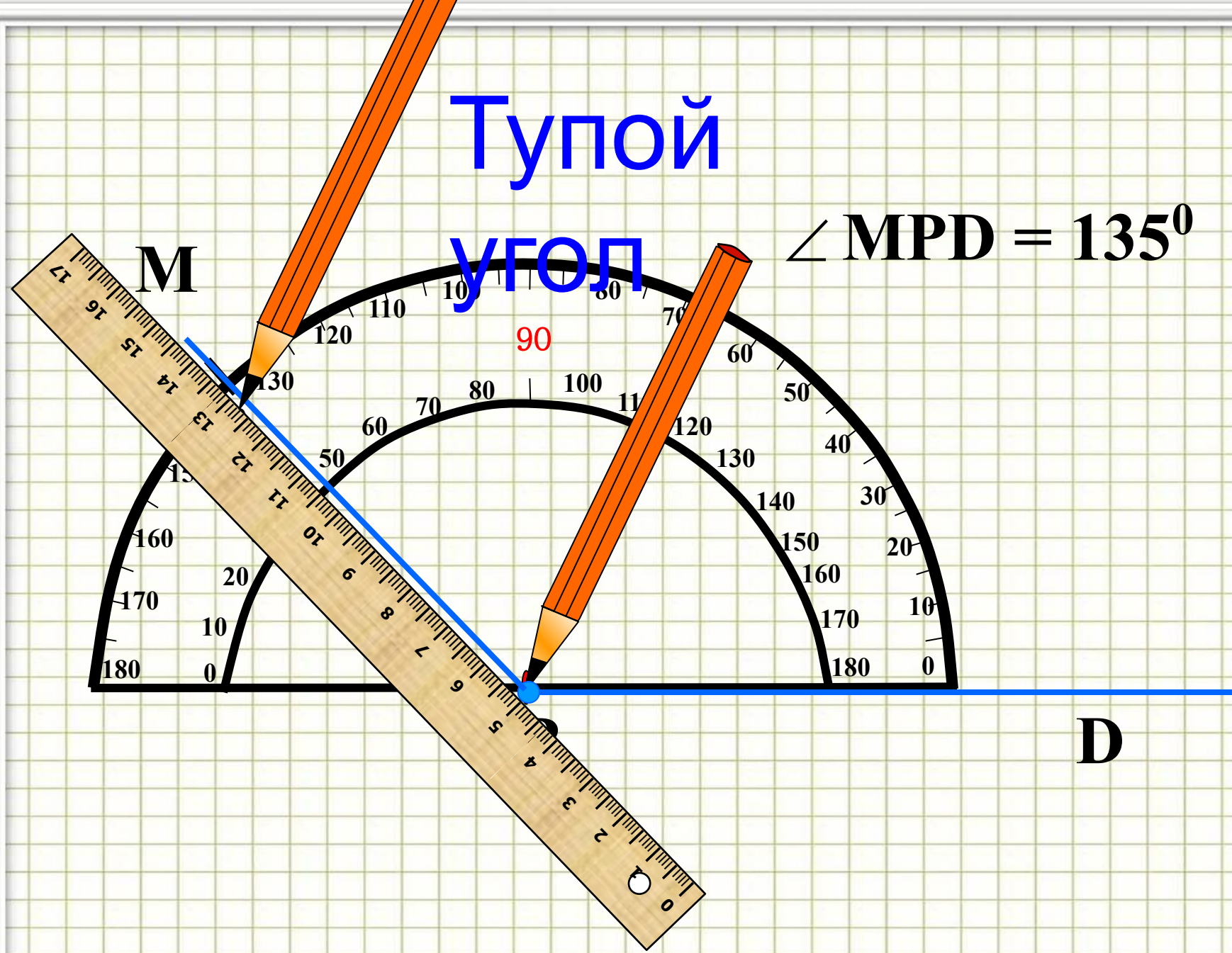


3



Тупой угол

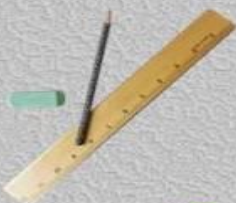
$$\angle MPD = 135^{\circ}$$



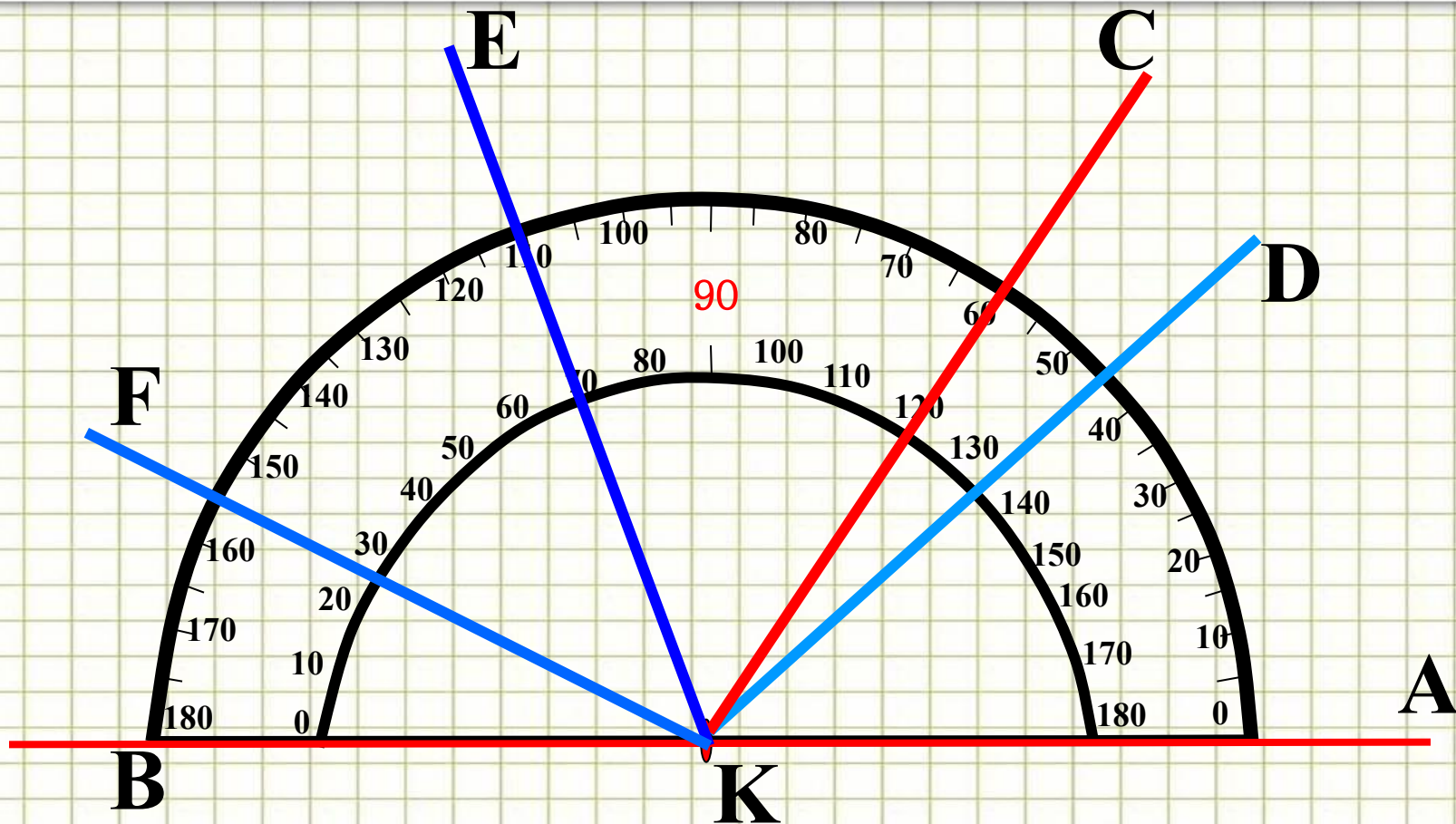
Транспортир применяют для построения углов.



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Определите градусные меры углов

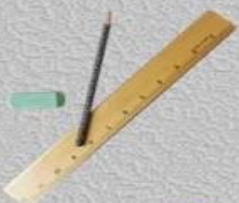
а) $\angle AKD$, $\angle AKE$, $\angle AKF$;

б) $\angle BKF$, $\angle BKE$, $\angle BKC$, $\angle BKD$;

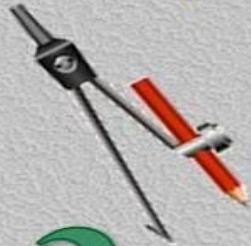
в) $\angle DKC$, $\angle DKE$, $\angle DKF$, $\angle CKE$, $\angle CKF$, $\angle EKF$.



5



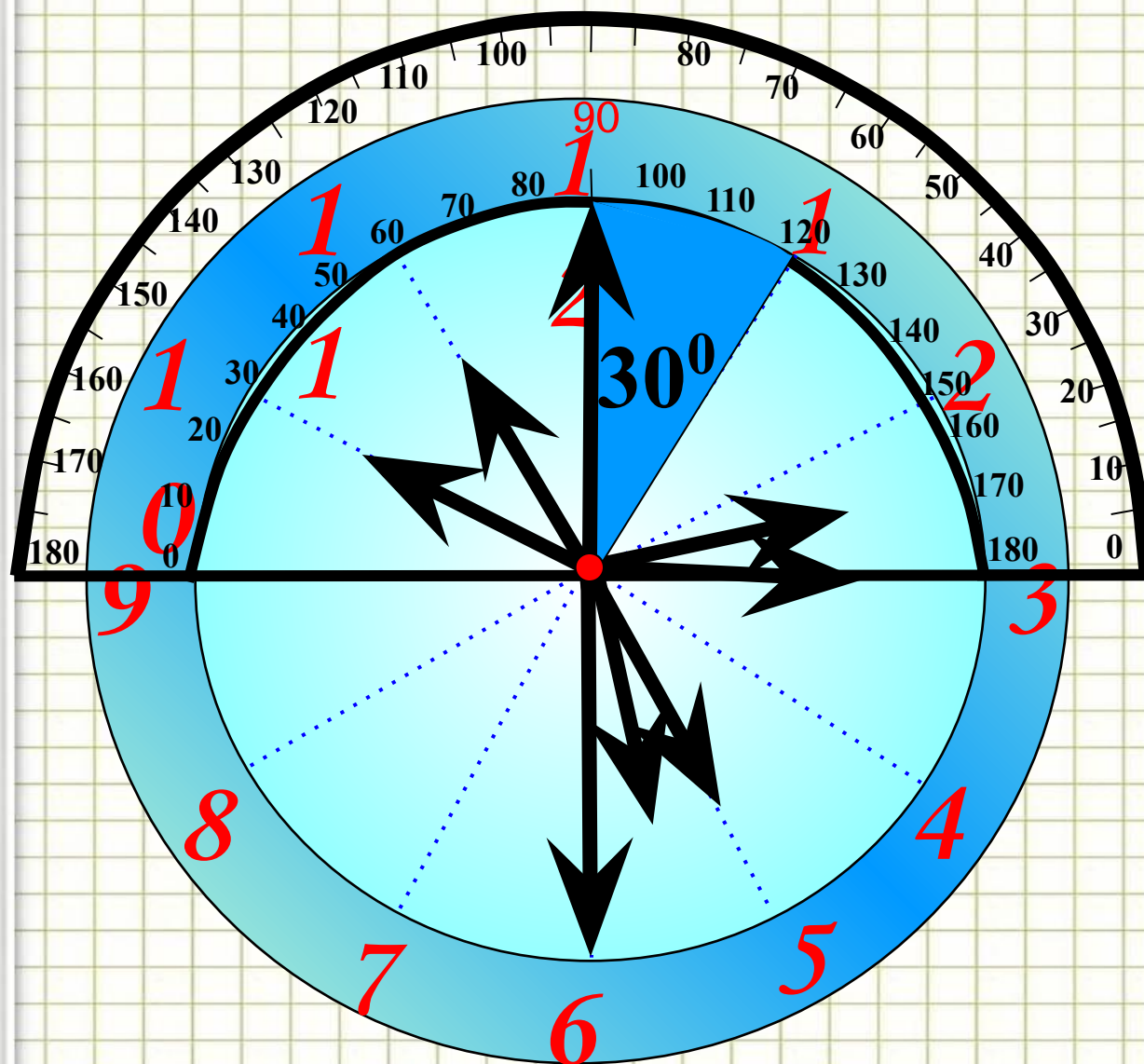
7



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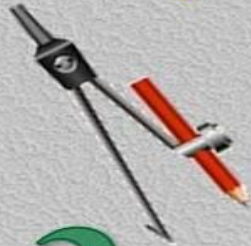
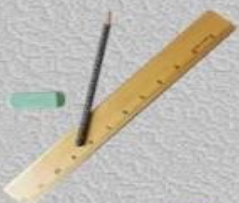
Какой угол образует часовая и минутная стрелки часов:



- а) в 3 ч;
- б) в 5 ч;
- в) в 10 ч;
- г) в 11 ч;
- д) в 2 ч 30 мин;
- е) в 5 ч 30 мин?



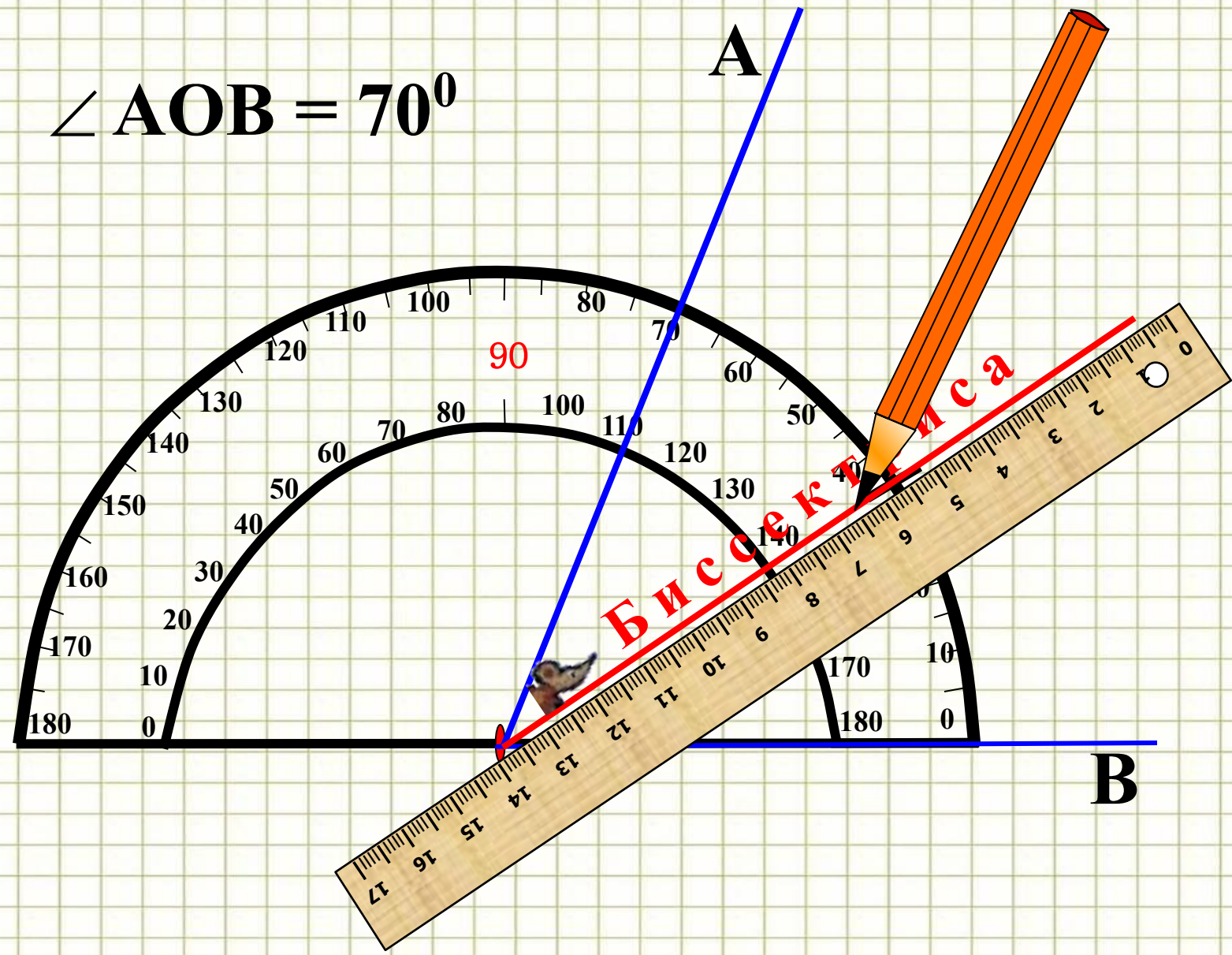
5



3

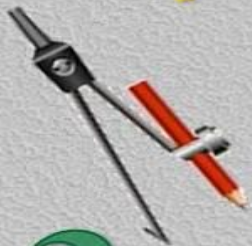
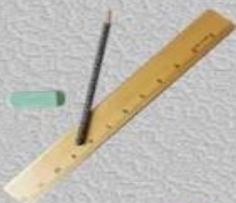


$$\angle AOB = 70^{\circ}$$





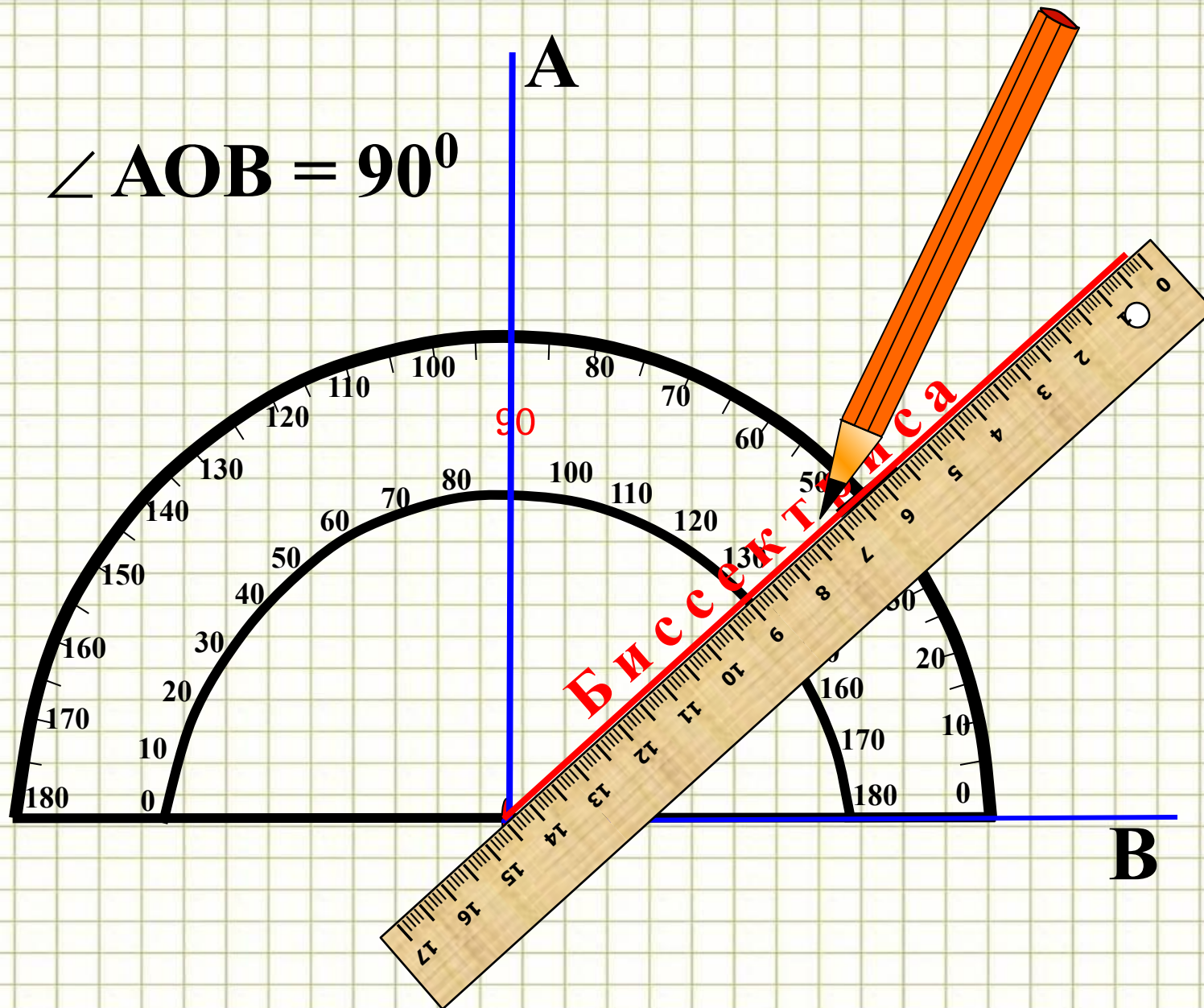
5



3

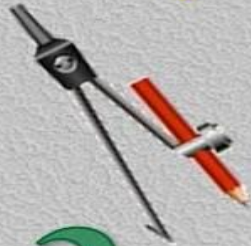
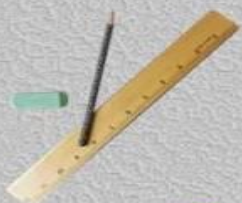


$$\angle AOB = 90^{\circ}$$

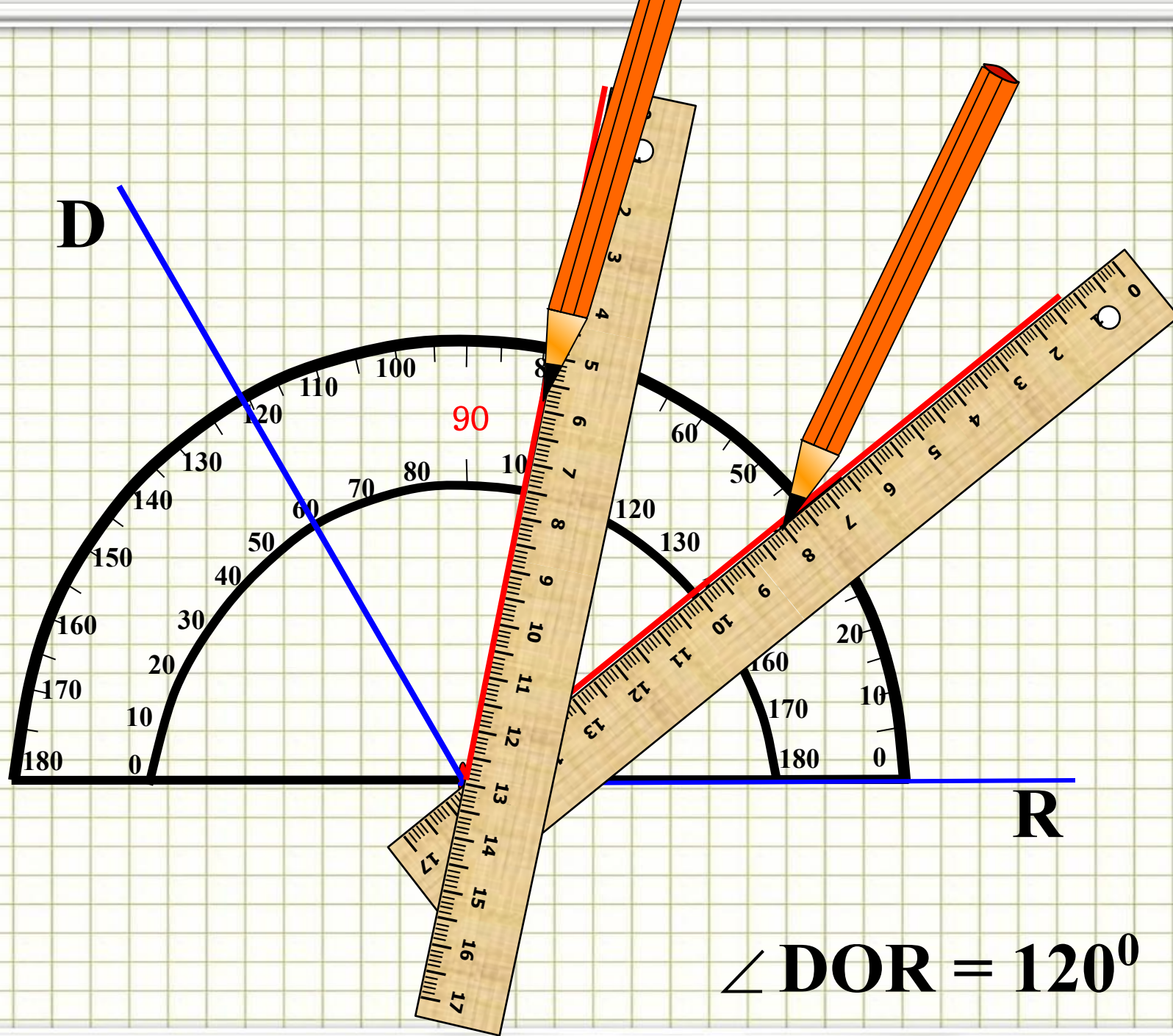




5



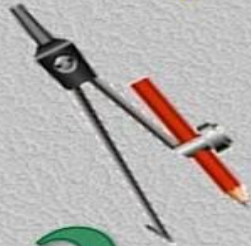
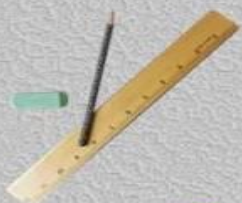
3



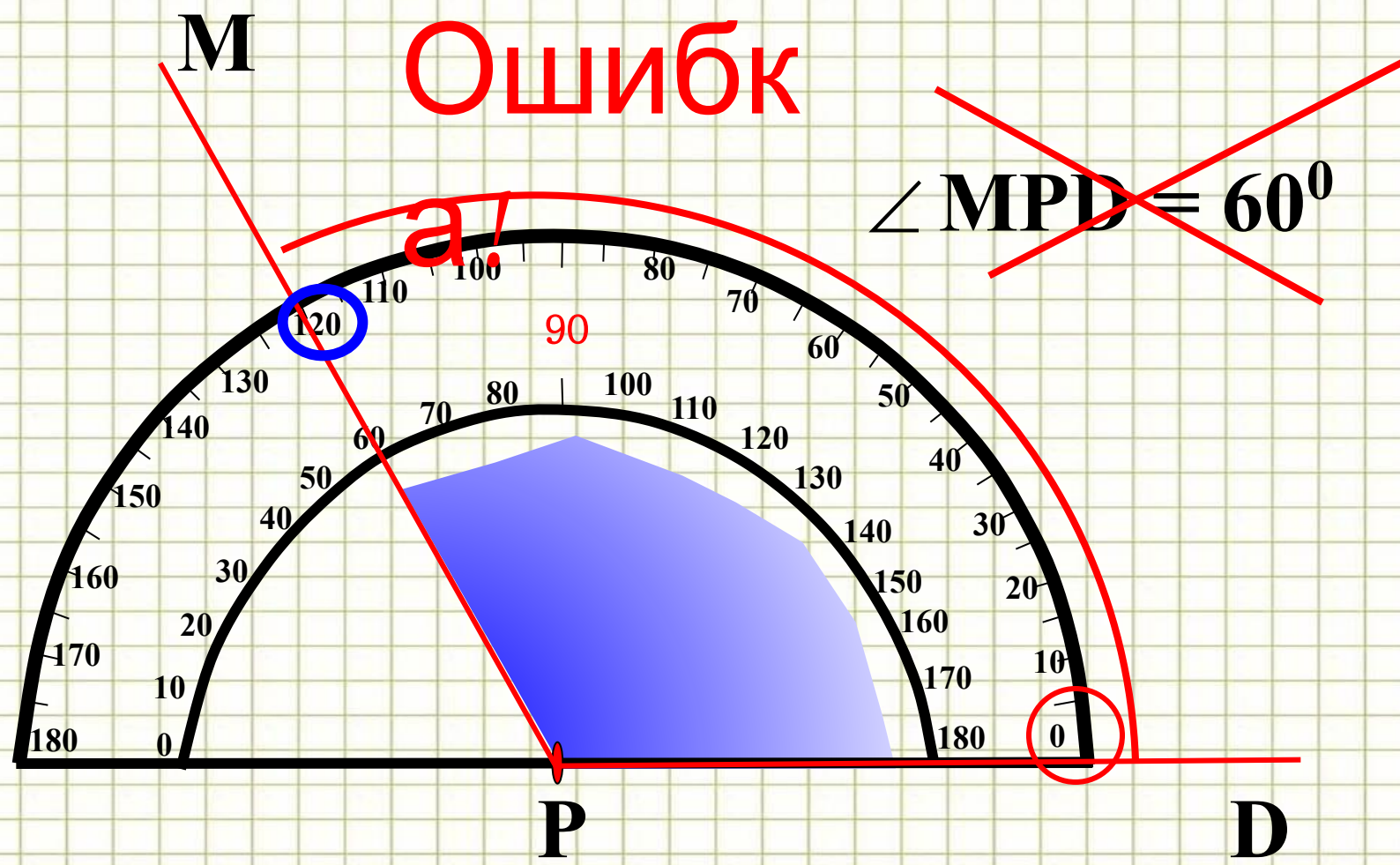
$$\angle \text{DOR} = 120^\circ$$



5



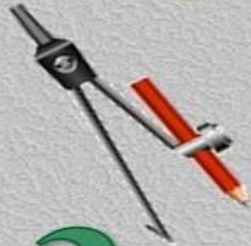
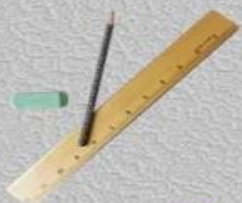
3



$$\angle MPD = 120^0$$



5



3

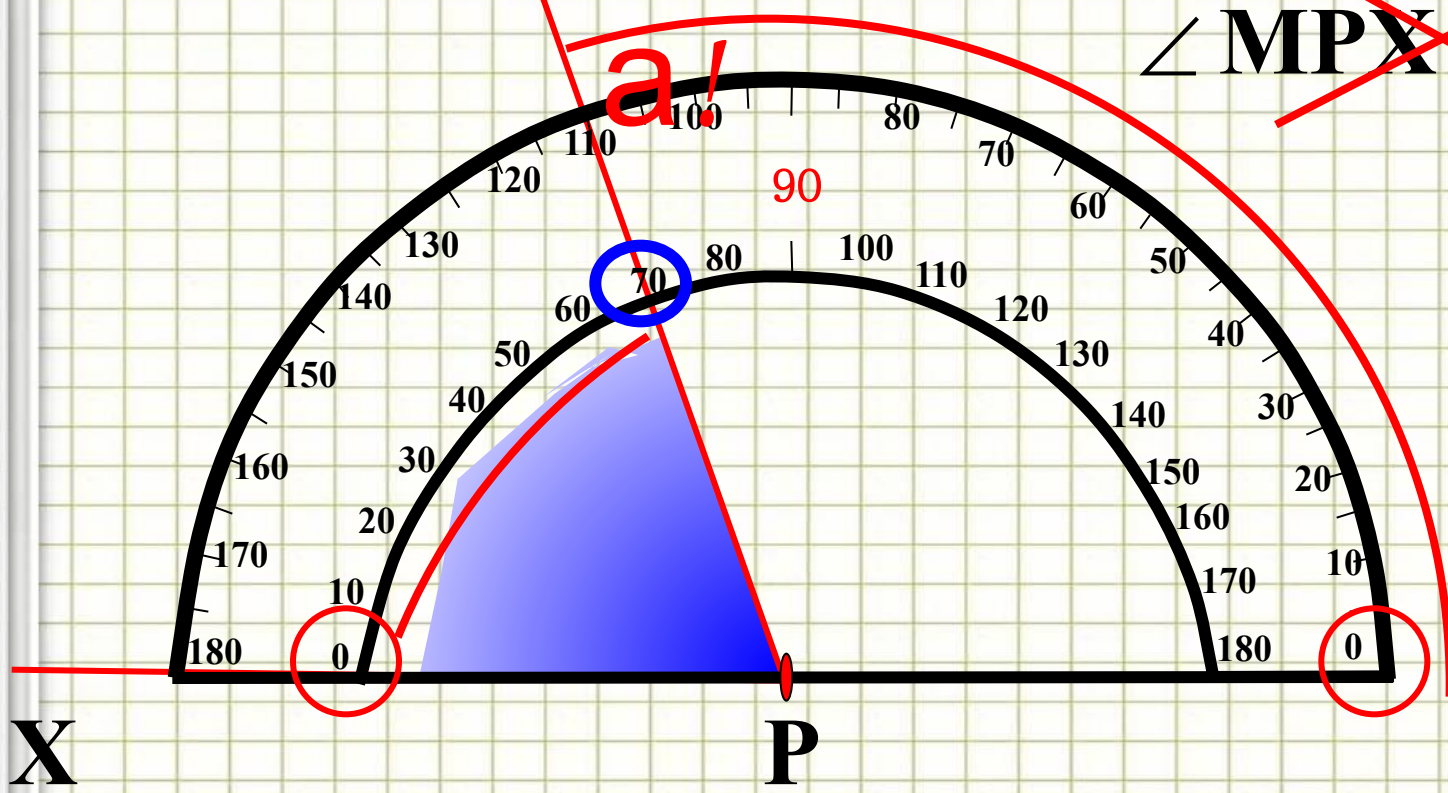


М

Ошибк

а!

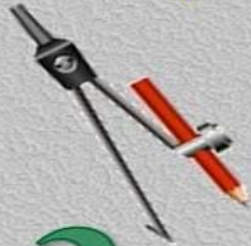
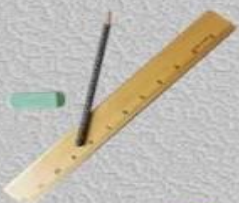
~~$\angle MPX = 110^0$~~



$\angle MPX = 70^0$



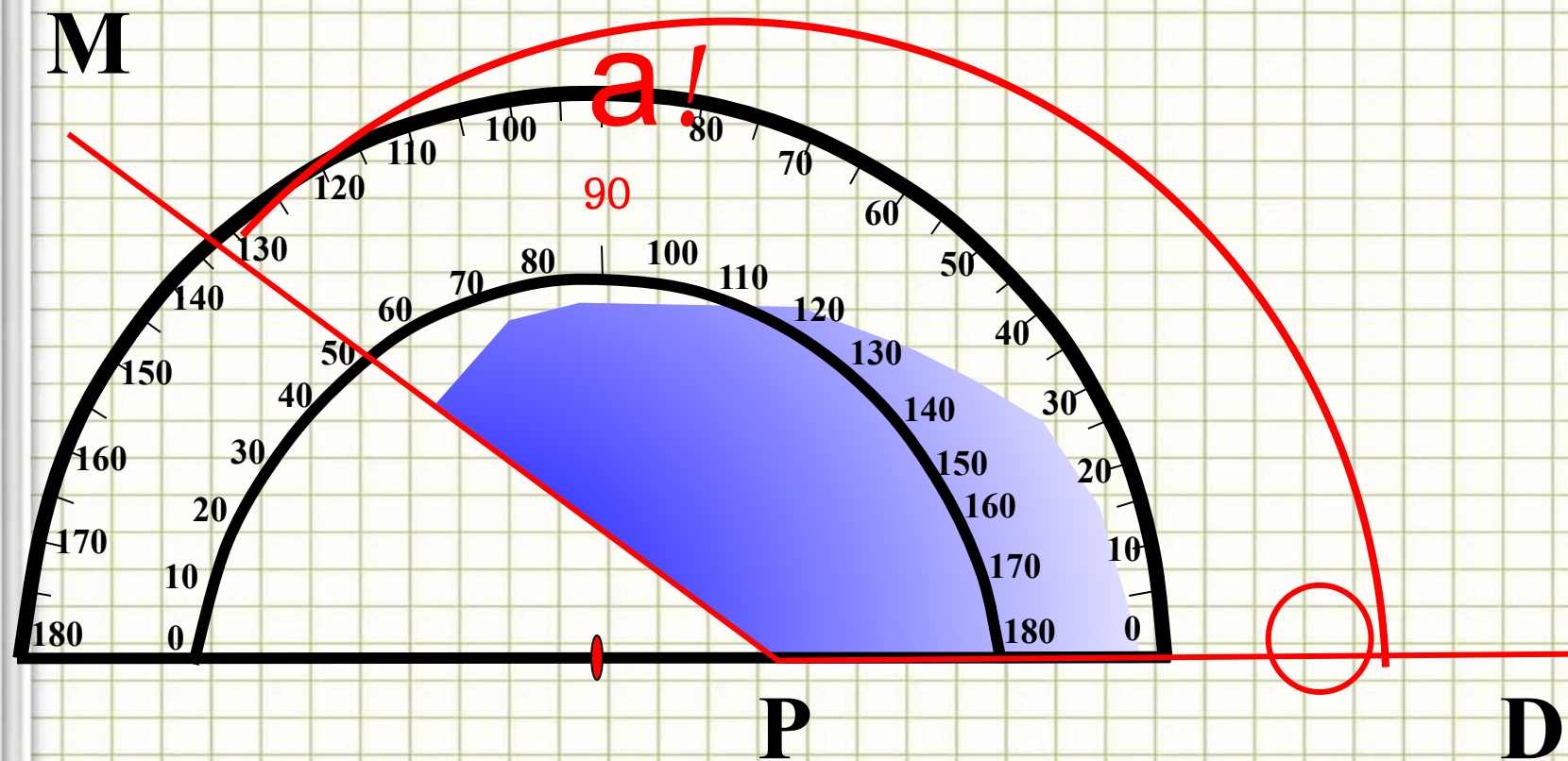
5



3



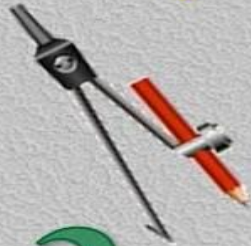
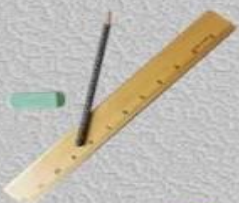
Ошибк



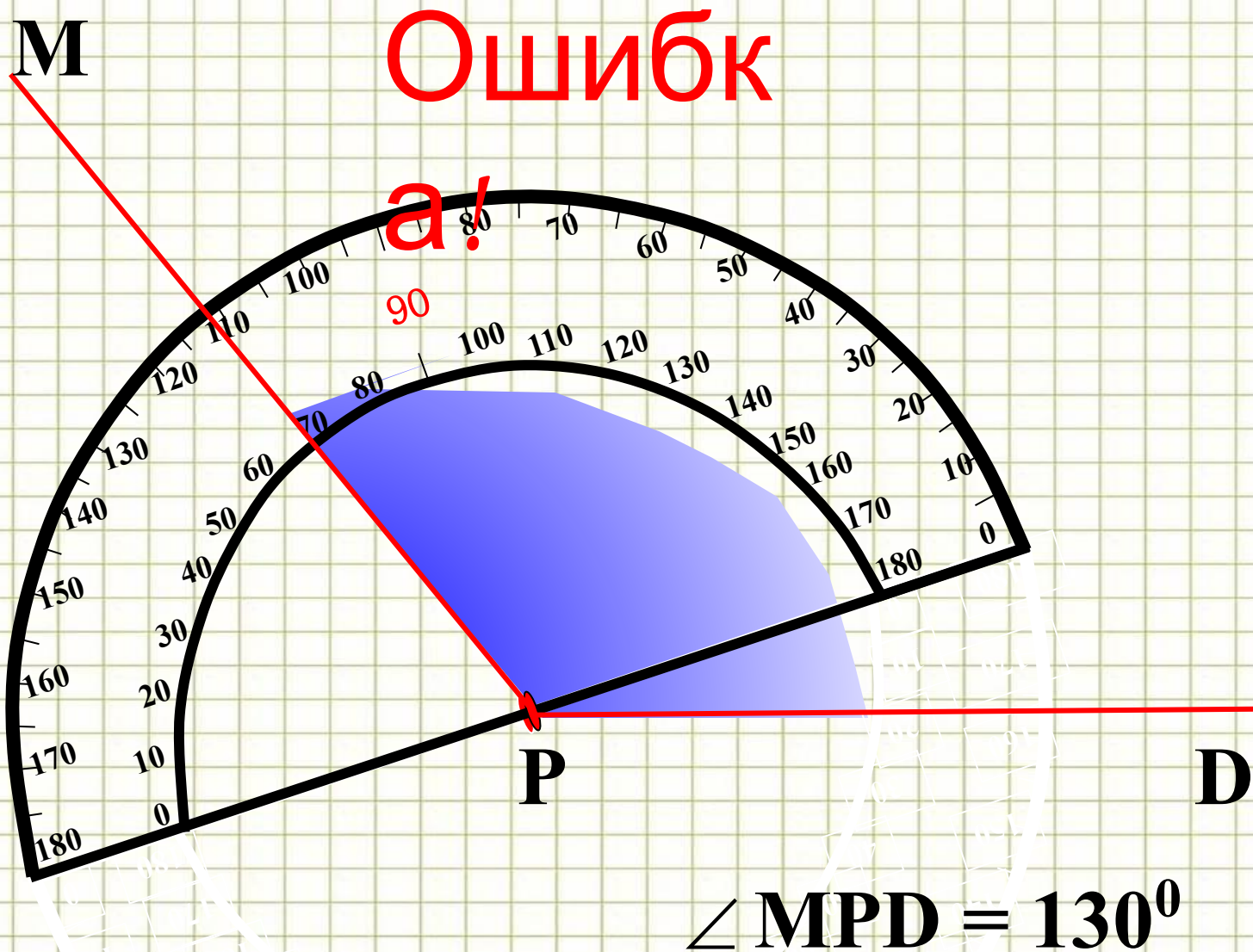
$$\angle MPD = 145^{\circ}$$



5

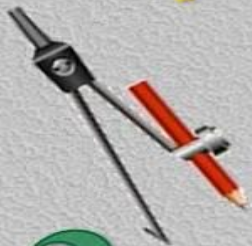


3





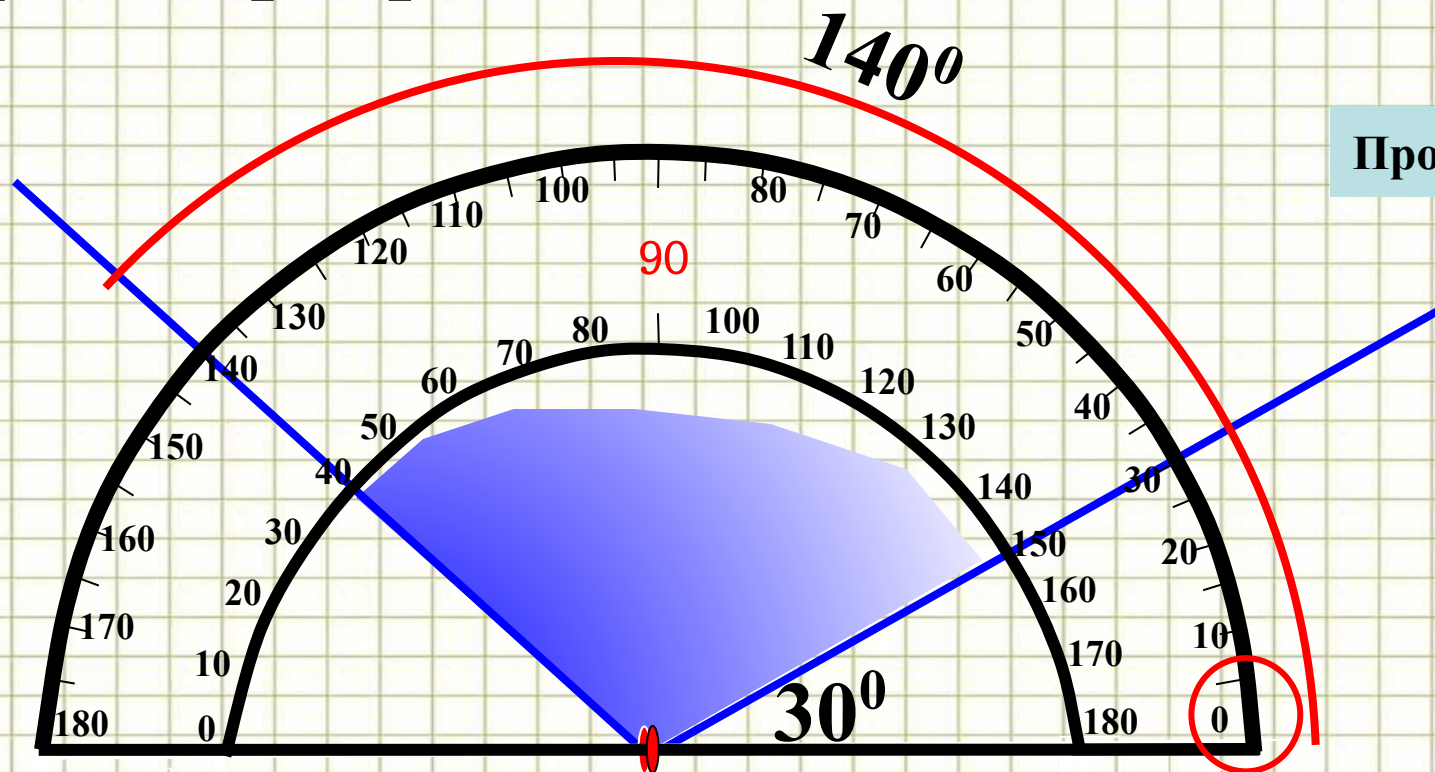
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Найти градусную меру угла, выполнив
вычисления, используя верхнюю и нижнюю
шкалу транспортира.

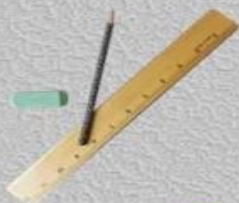


Проверка

$$140^{\circ} - 30^{\circ} = 110^{\circ}$$



5



7



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**Спасибо за
урок!**