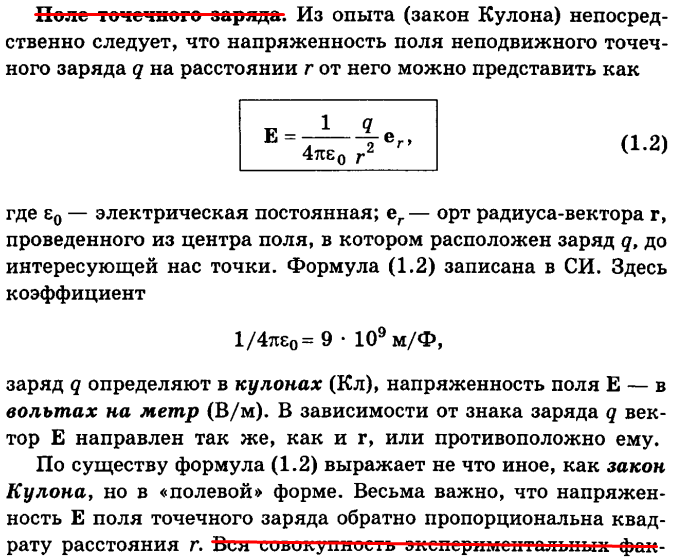
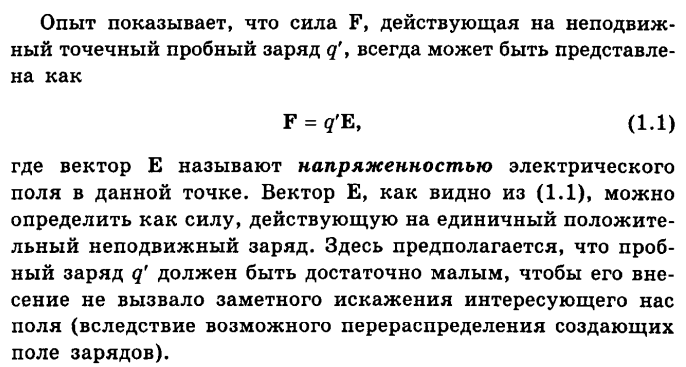
**Ч. 1.**

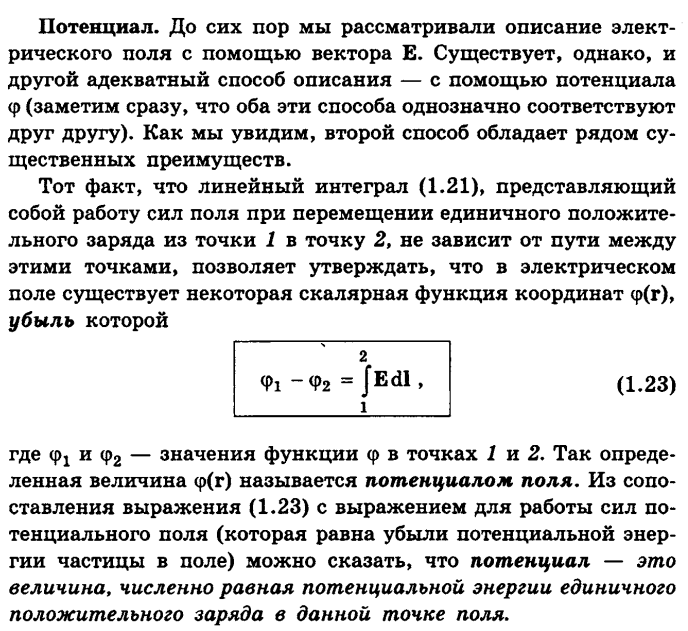
Вопрос 1.

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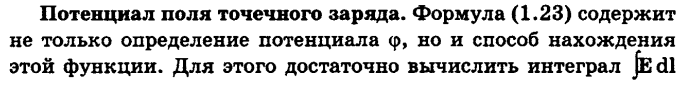
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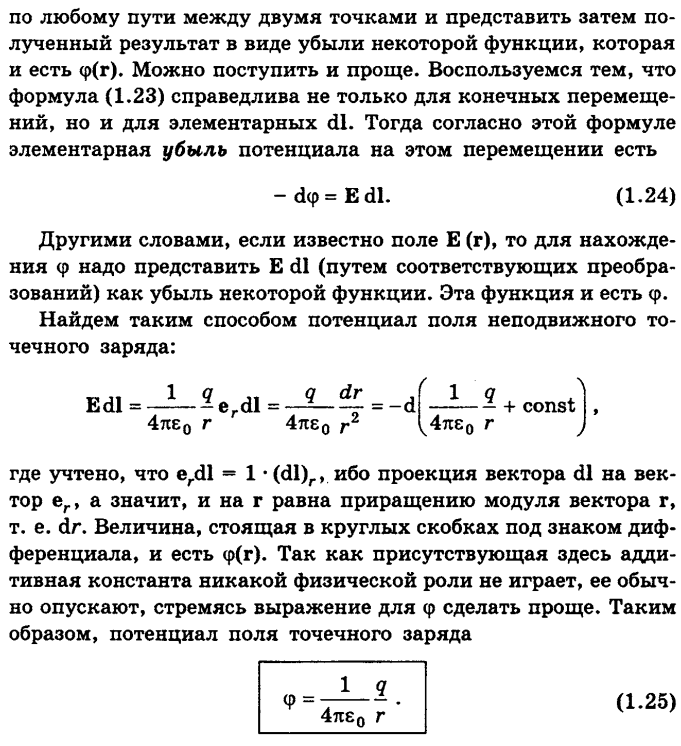


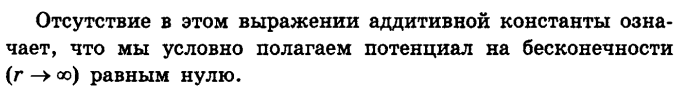




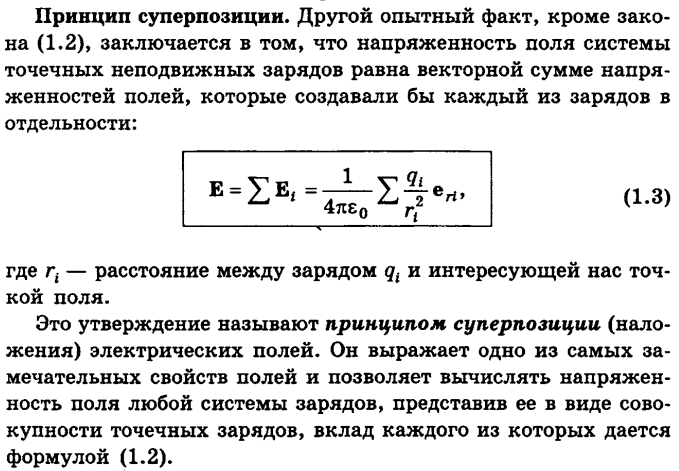
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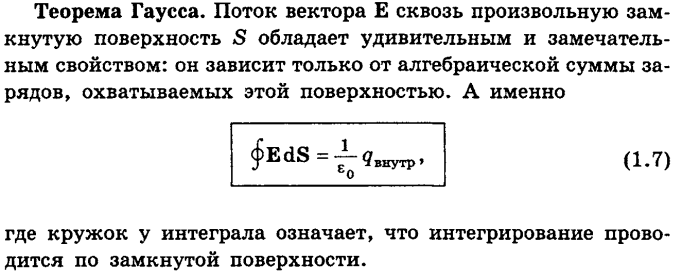


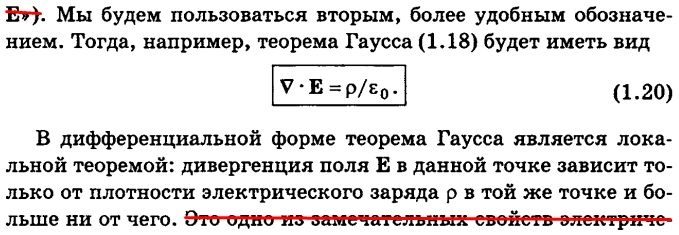


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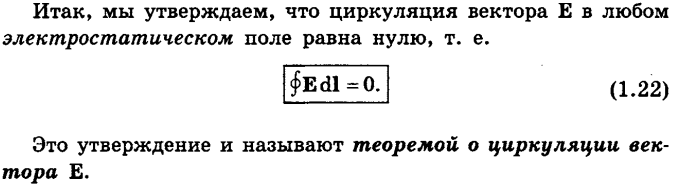




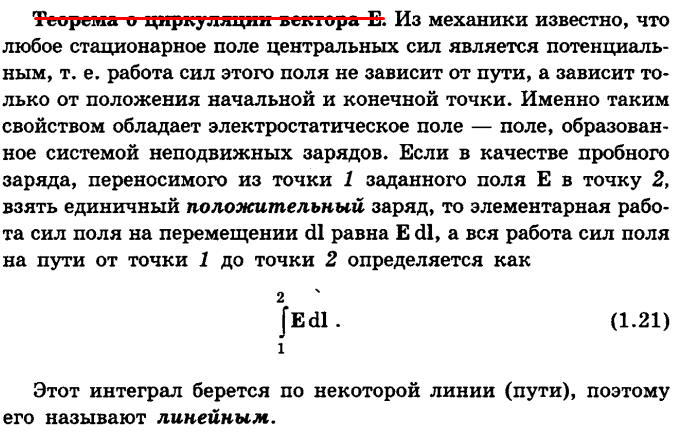
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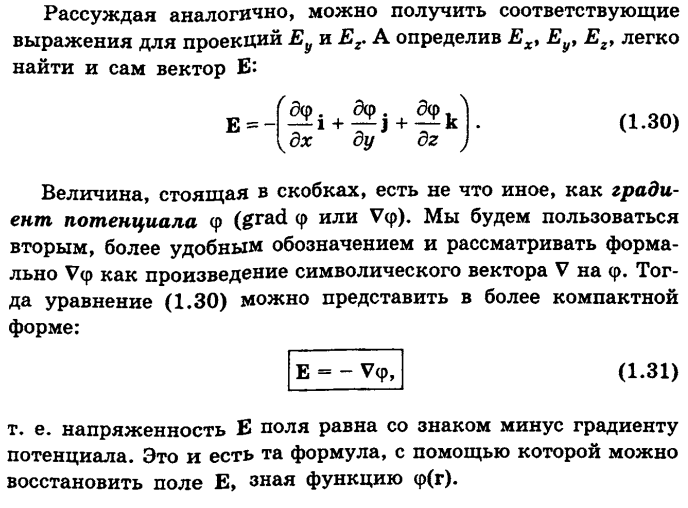
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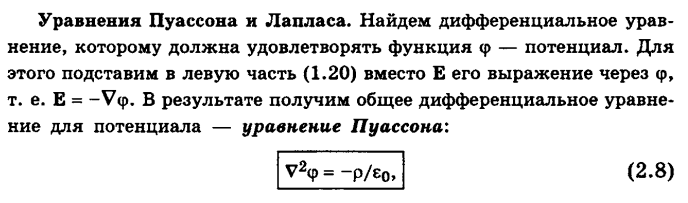


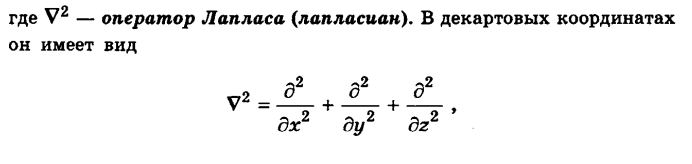
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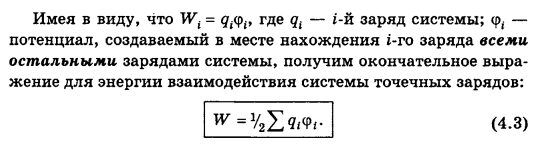
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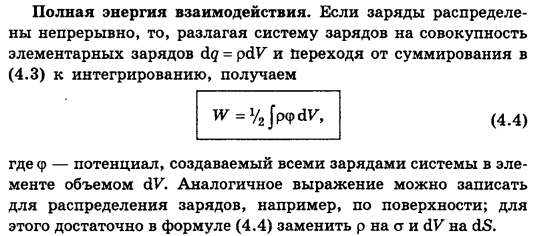




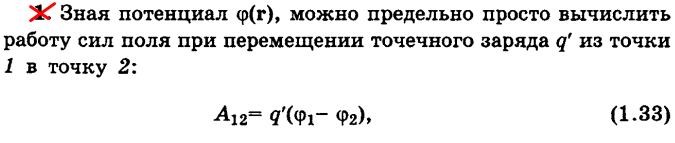


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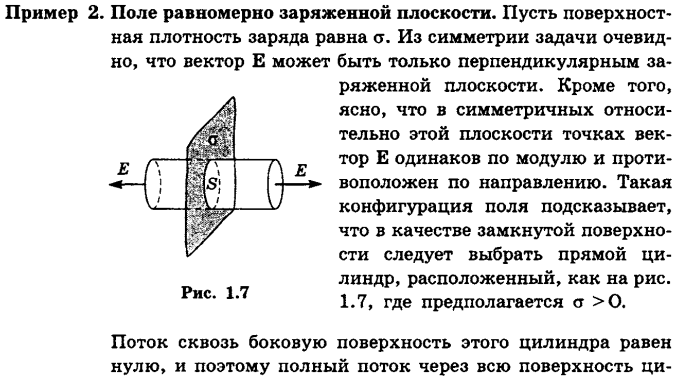
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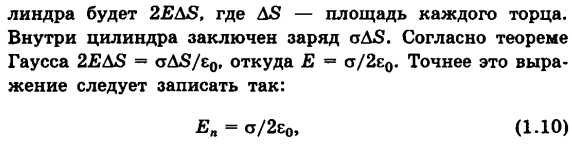


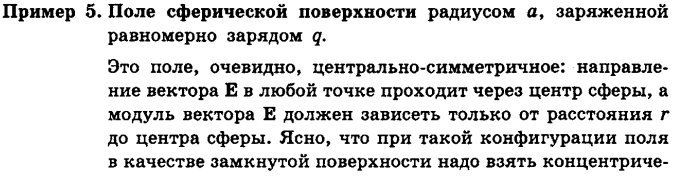
Вопрос 2.

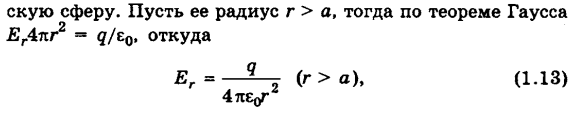
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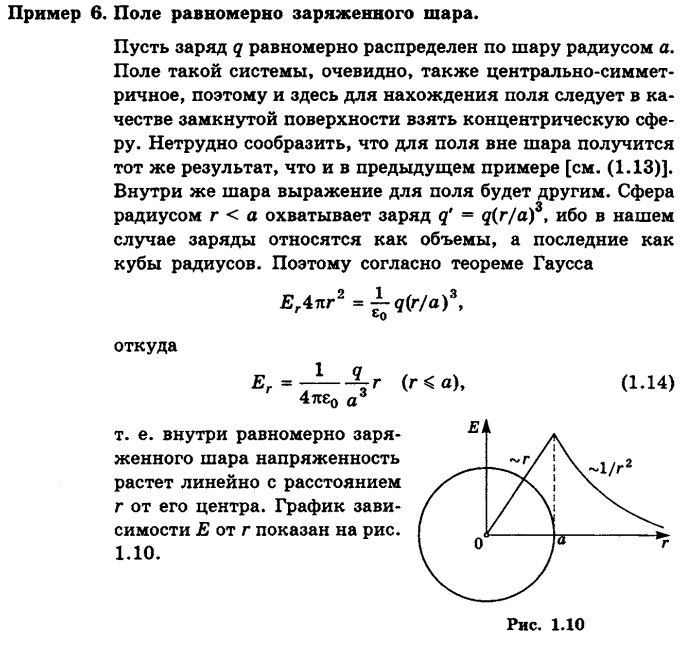


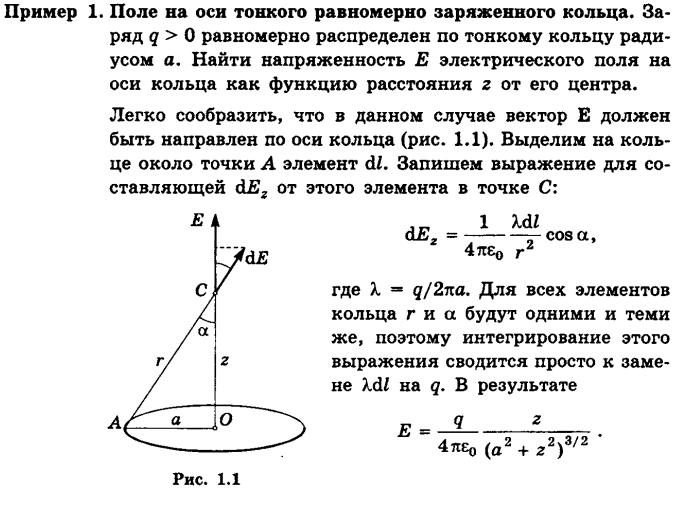


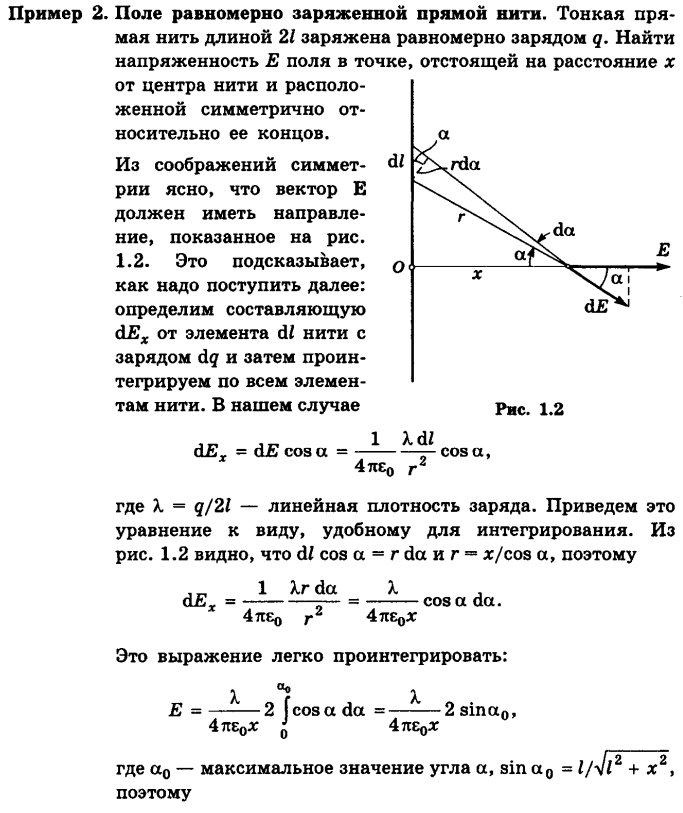




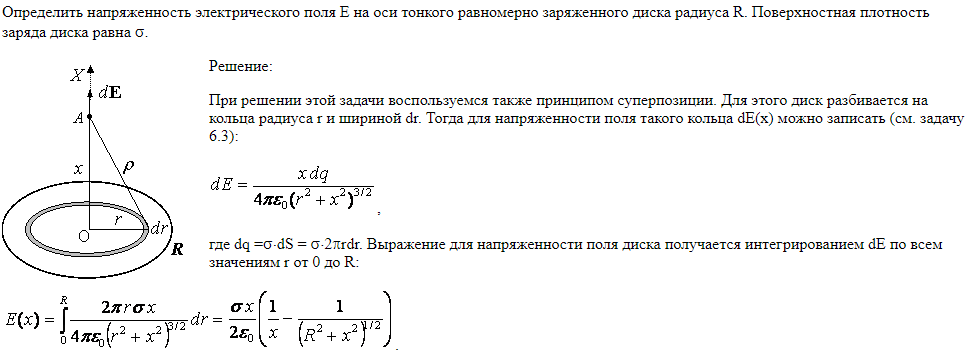








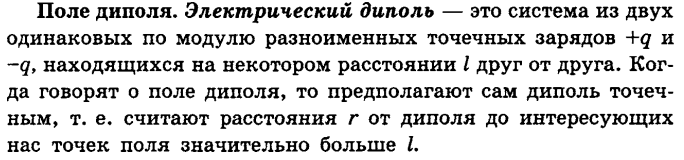




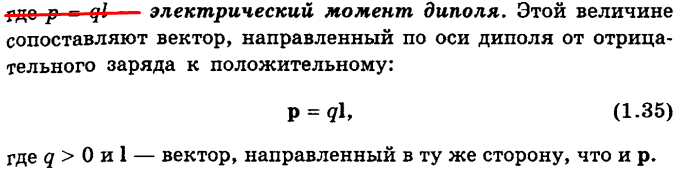


Вопрос 3.

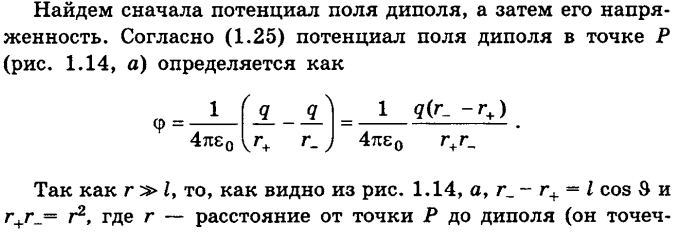
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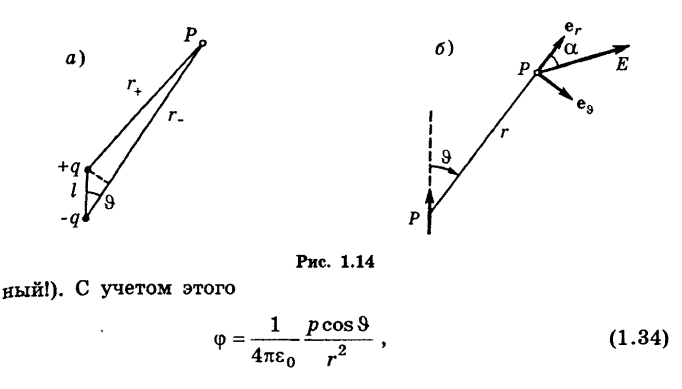


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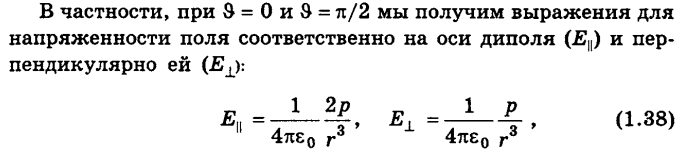


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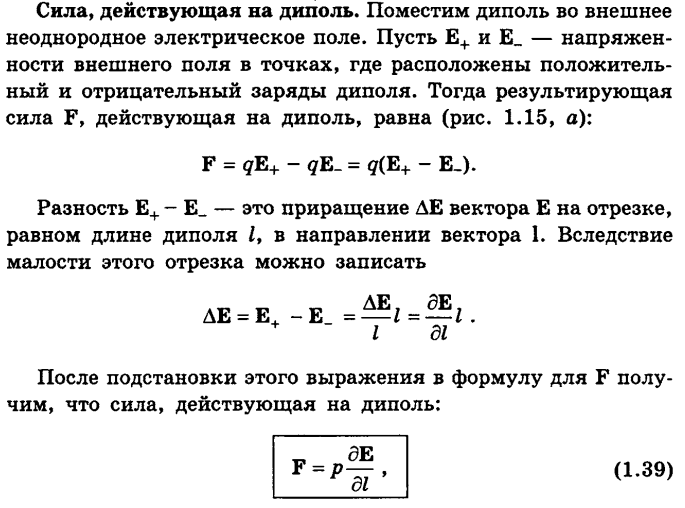


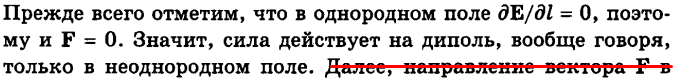






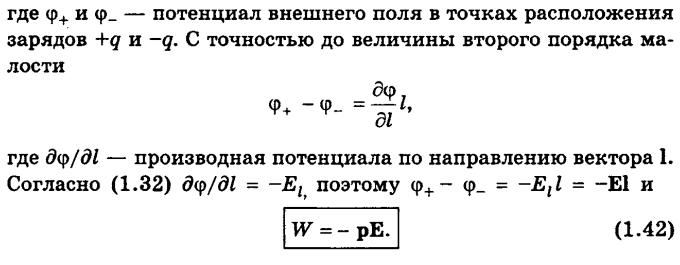
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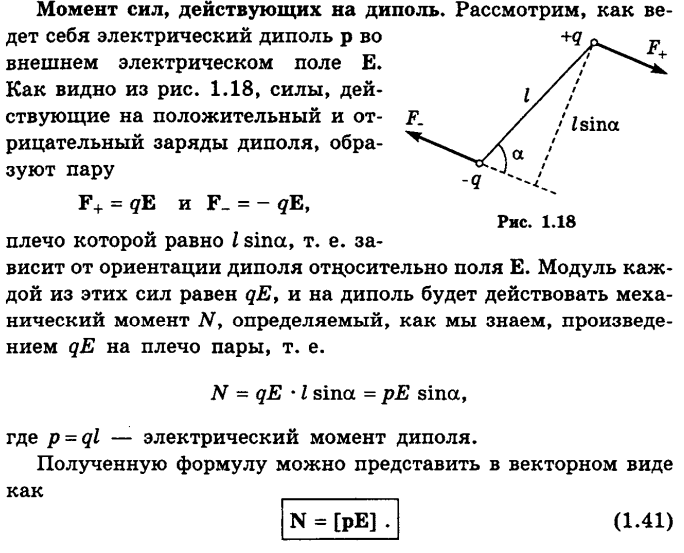




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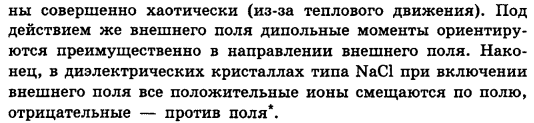
Вопрос 4.

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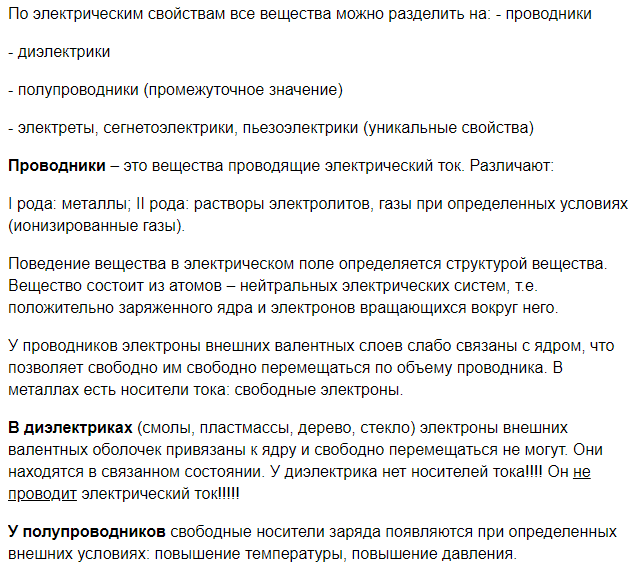


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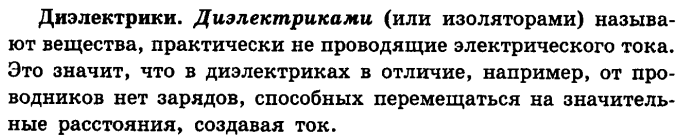


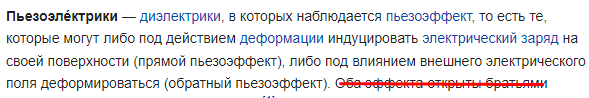


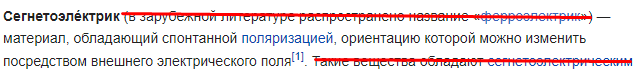
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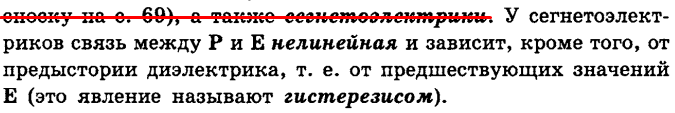
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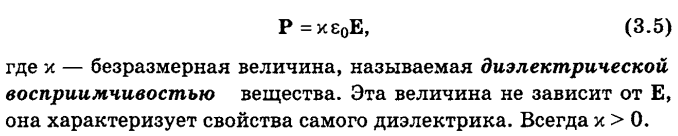


Вопрос 5.

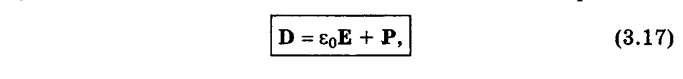
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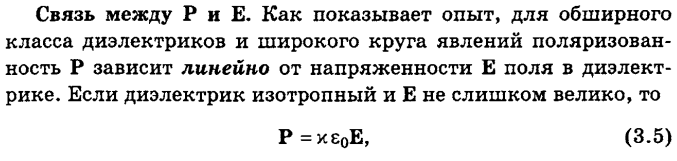
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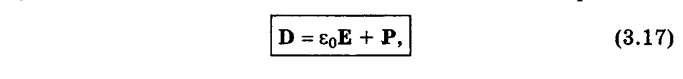


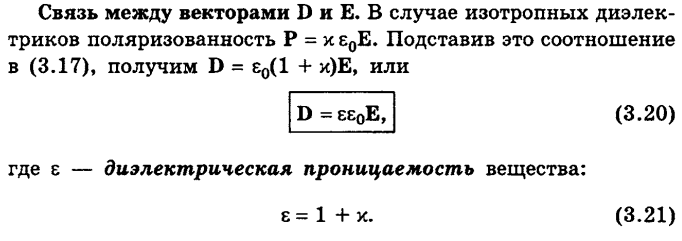
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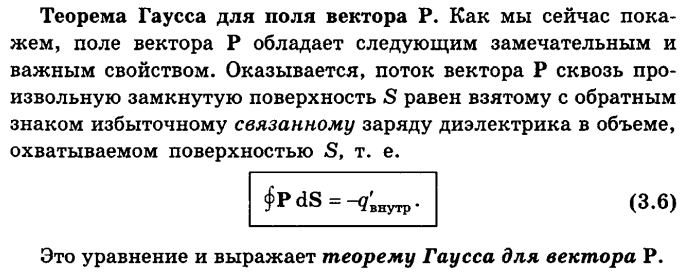
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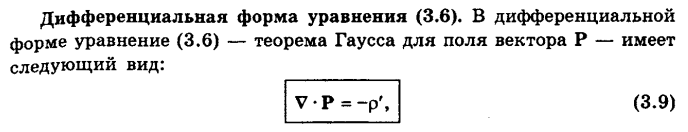




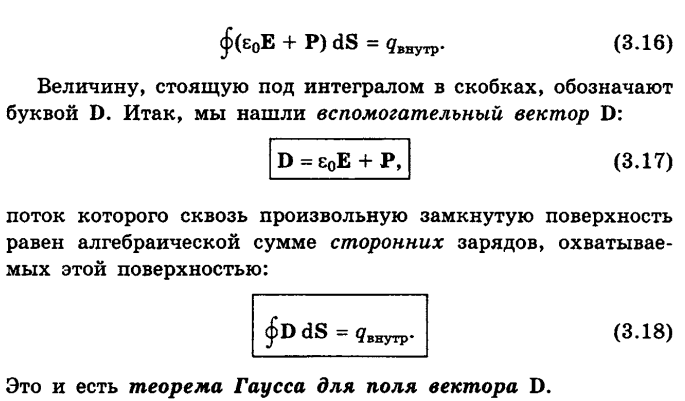


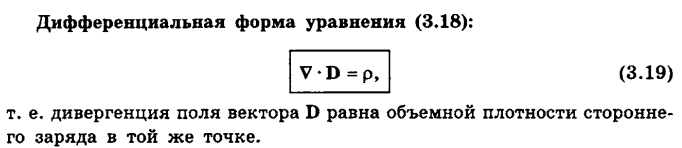
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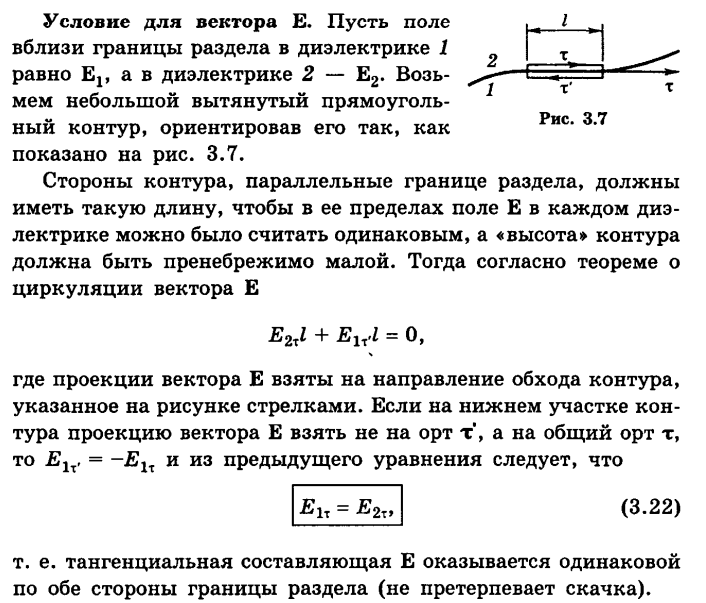


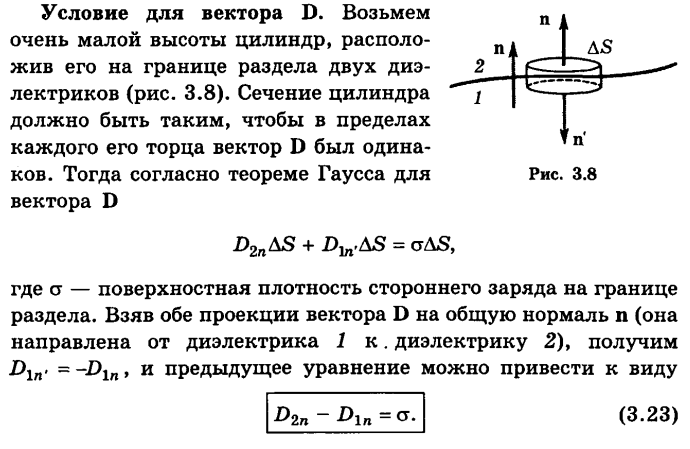


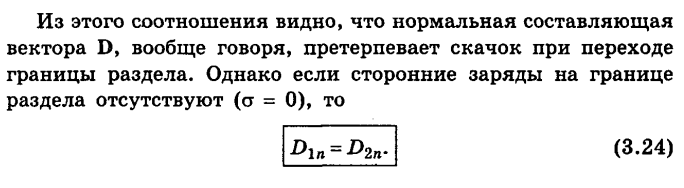




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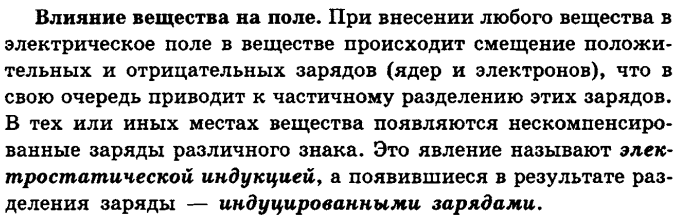


Вопрос 6.

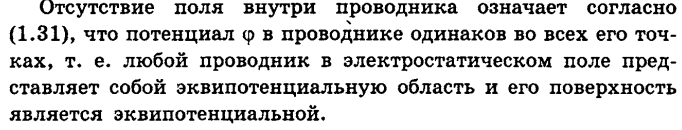
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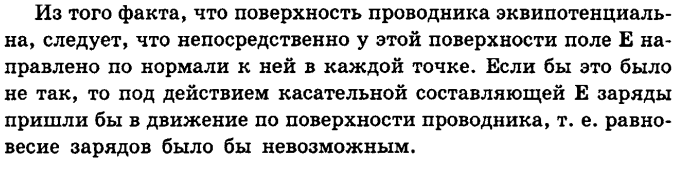


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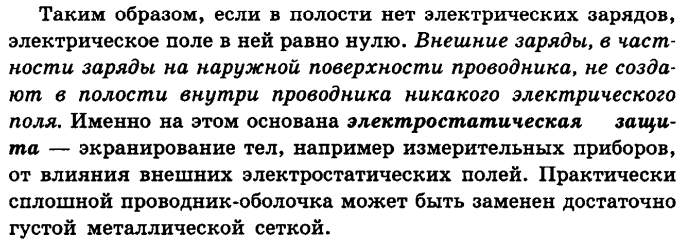


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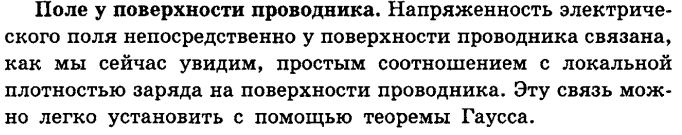


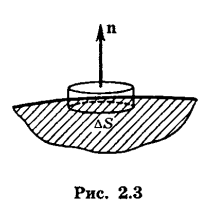


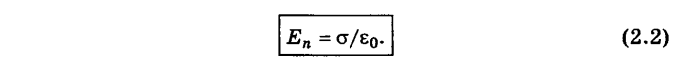
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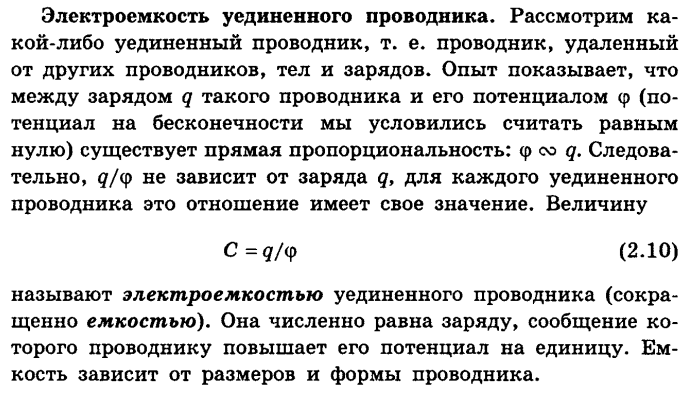
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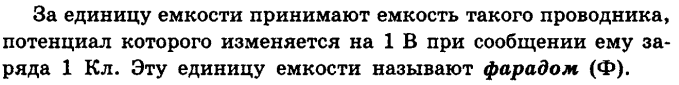




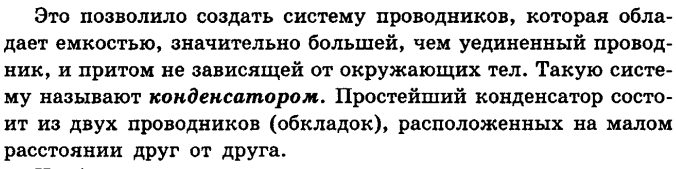


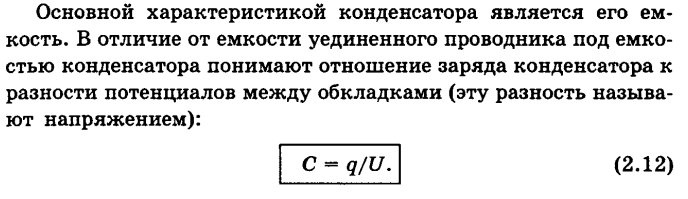
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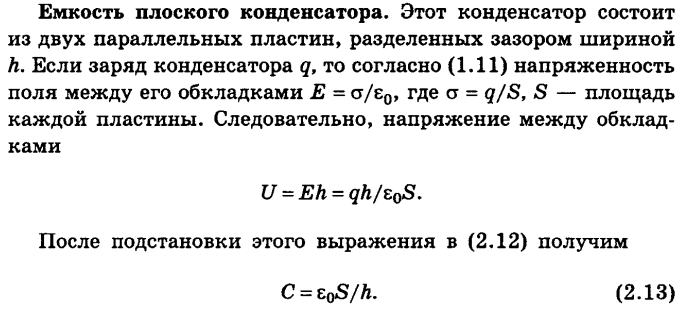


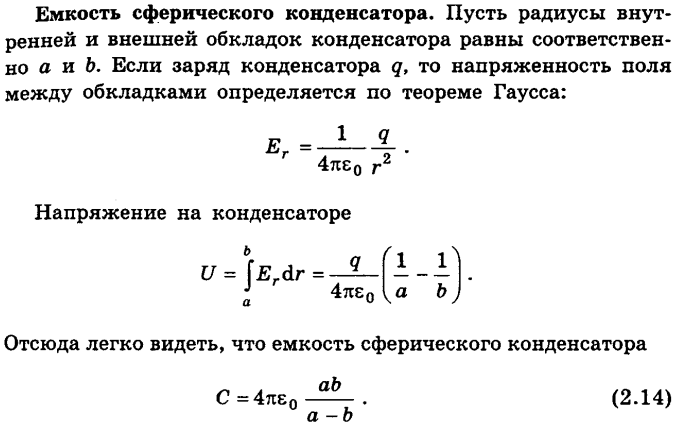
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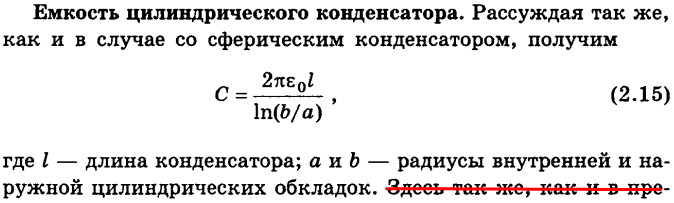




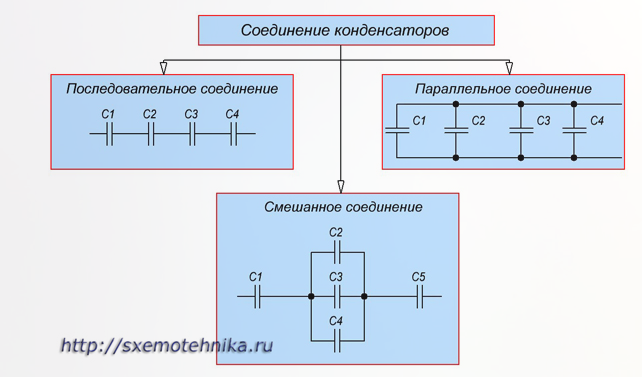
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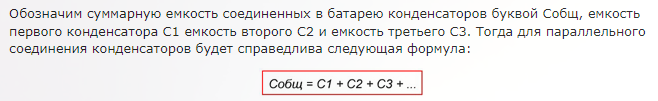


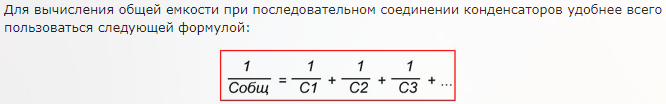




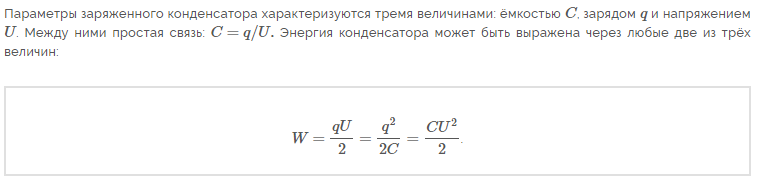
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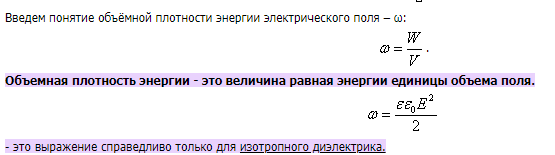






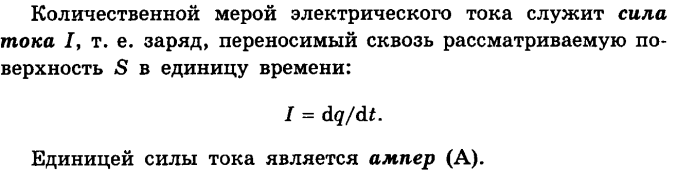
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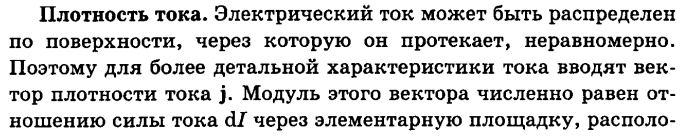


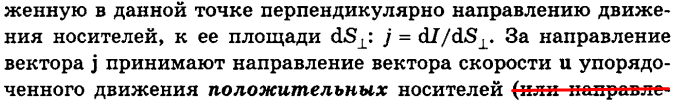


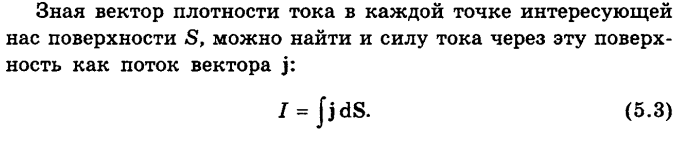
Вопрос 7.

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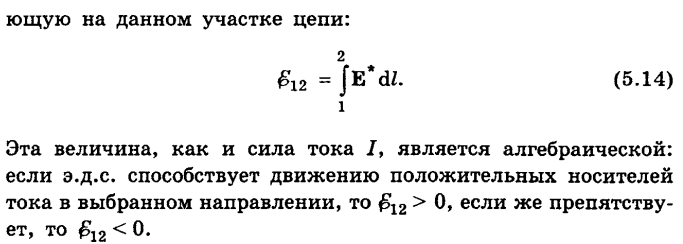




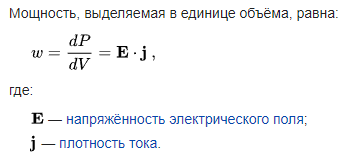


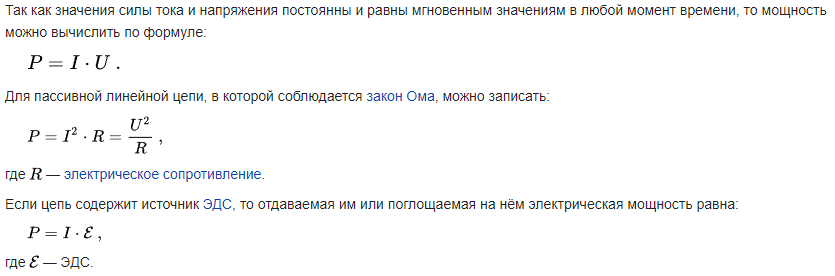


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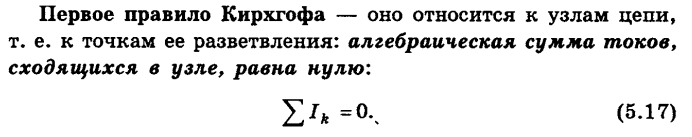


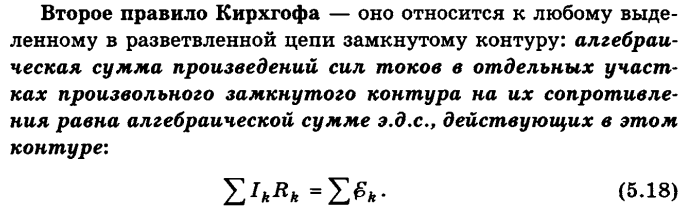
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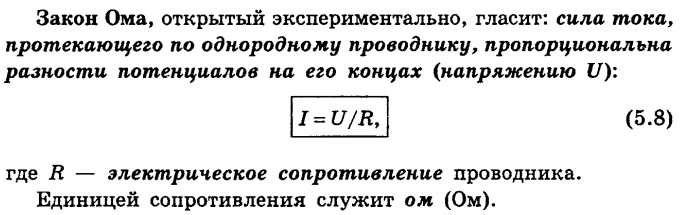
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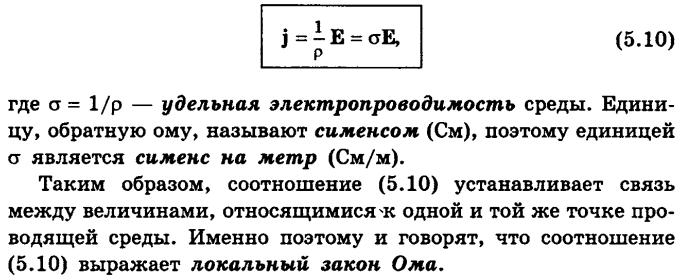


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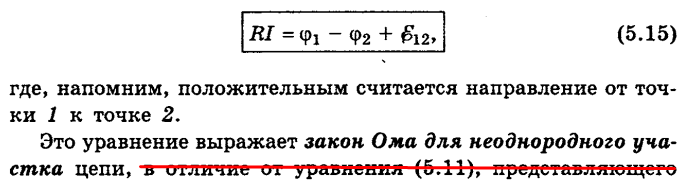
Закон Ома:



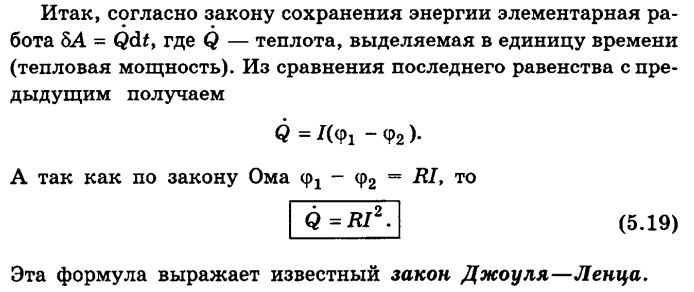
В локальной форме:



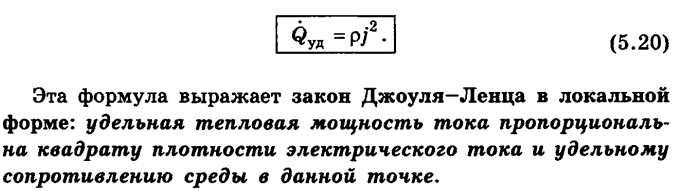
Для неоднородного участка цепи:



---Закон Джоуля-Ленца:



В локальной форме:





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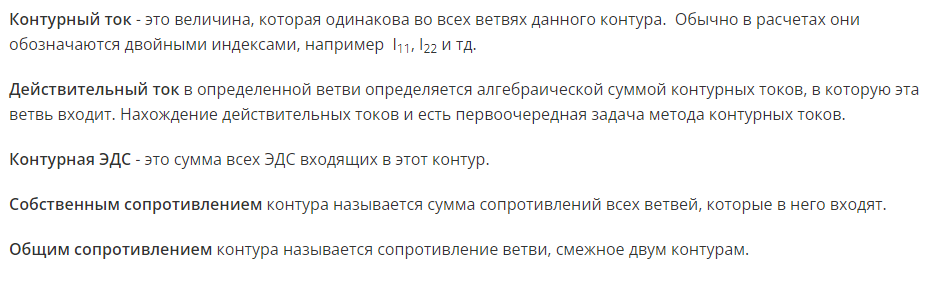


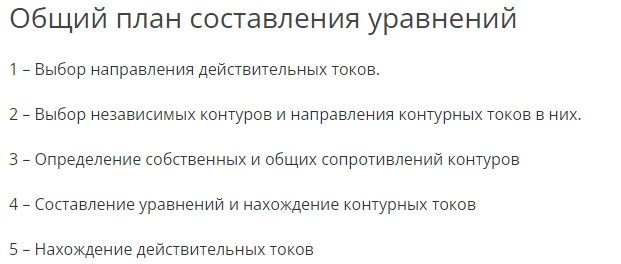






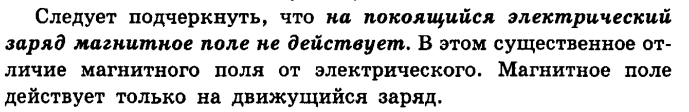
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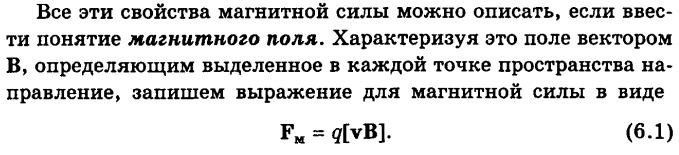


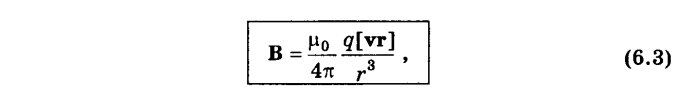


Вопрос 8.

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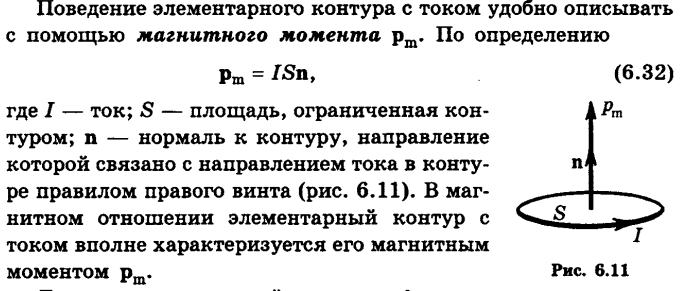


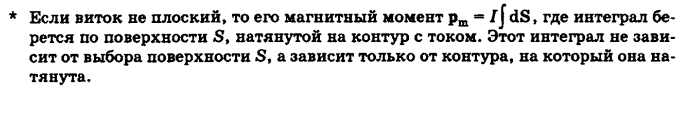




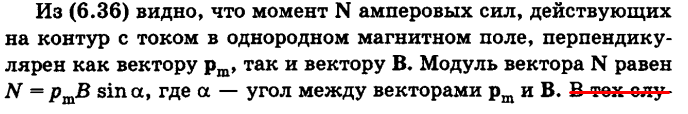


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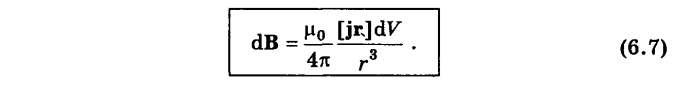


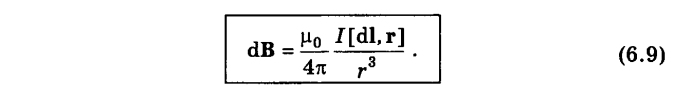
Вопрос 9.

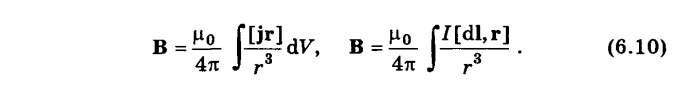
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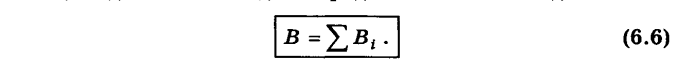


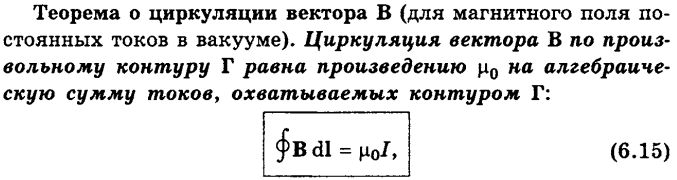




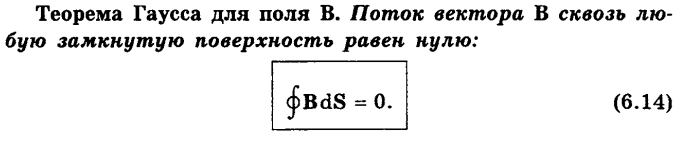








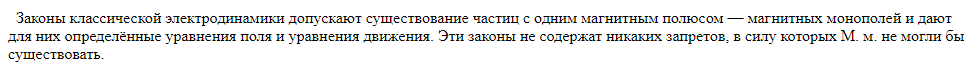




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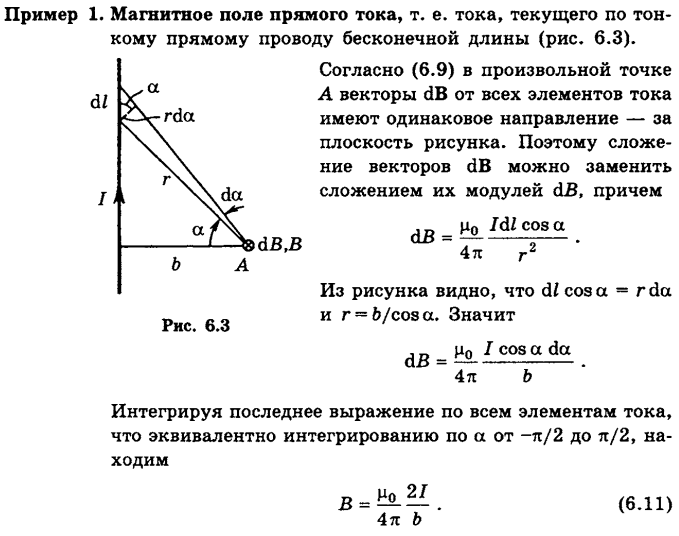


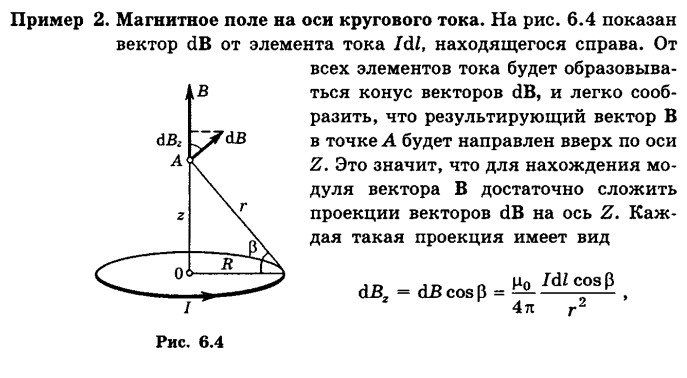


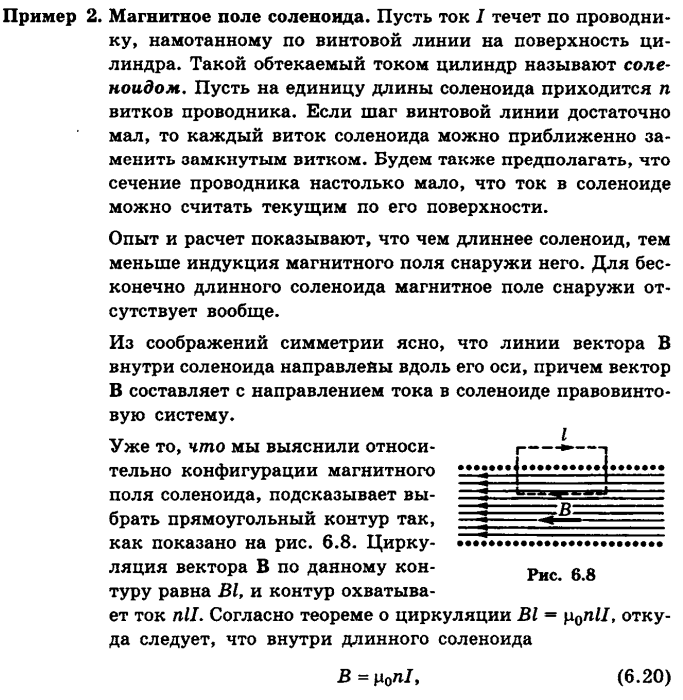


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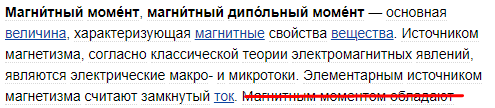






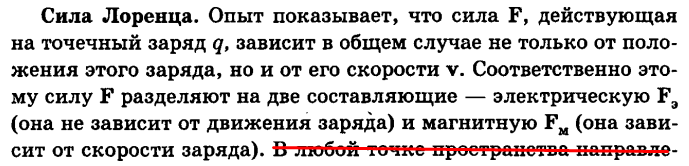


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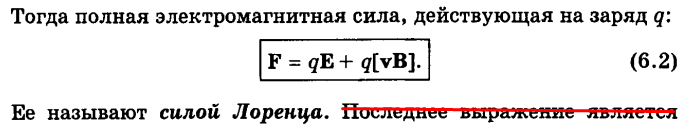


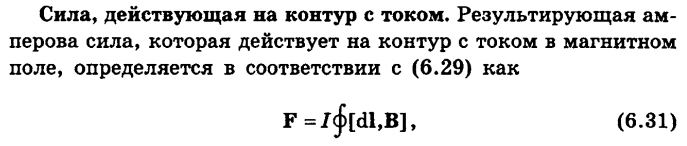
Вопрос 10.

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**?????**

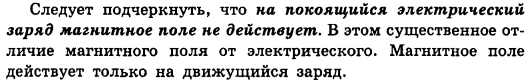
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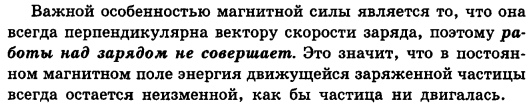
**?????**

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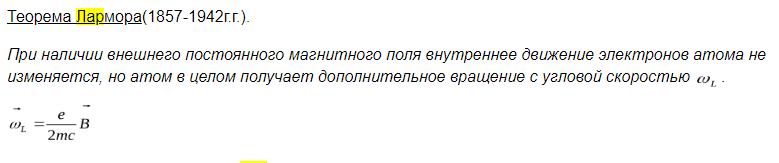


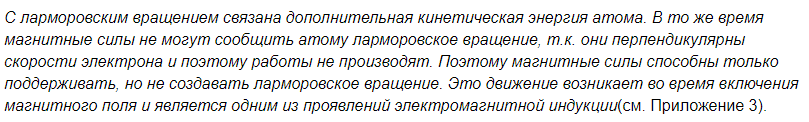






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**Ла́рморовский радиус** или **гирорадиус** — радиус кругового движения заряженной частицы в однородном магнитном поле.



Шаг Ларморовской спирали:



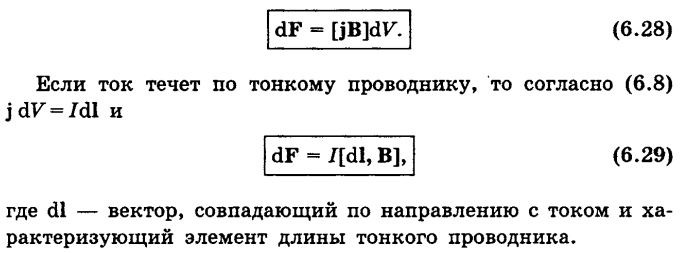
Поэтому T = 1/f, следовательно шаг a = v\*T = v/(|B|),

где v – параллельная вектору В составляющая скорости.

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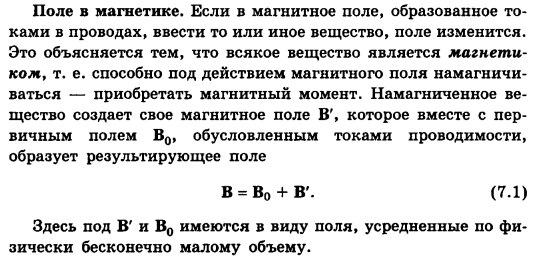
Одним из важных примеров магнитного взаимодействия является взаимодействие параллельных токов. Закономерности этого явления были экспериментально установлены [Ампером](https://physics.ru/courses/op25part2/content/scientist/ampere.html). Если по двум параллельным проводникам электрические токи текут в одну и ту же сторону, то наблюдается взаимное притяжение проводников. В случае, когда токи текут в противоположных направлениях, проводники отталкиваются.

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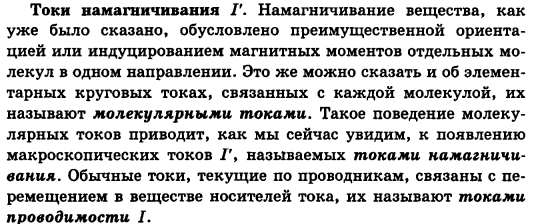


Вопрос 11.

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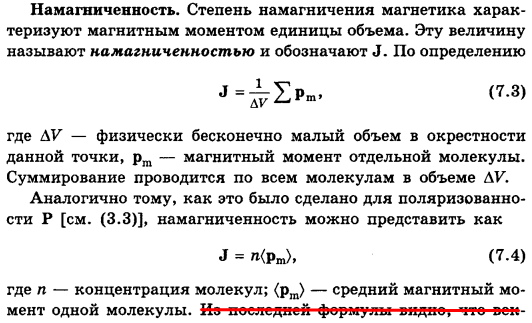


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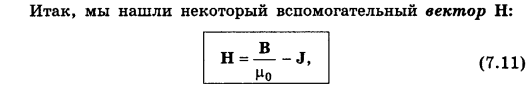


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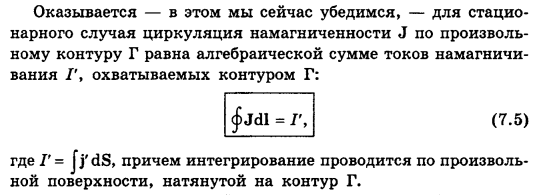
Вектор намагниченности:

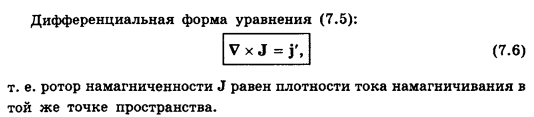


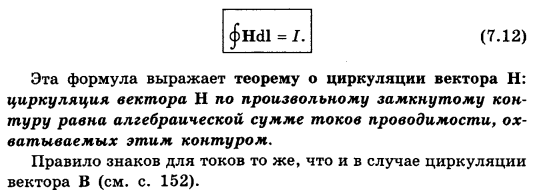
Вектор напряженности:



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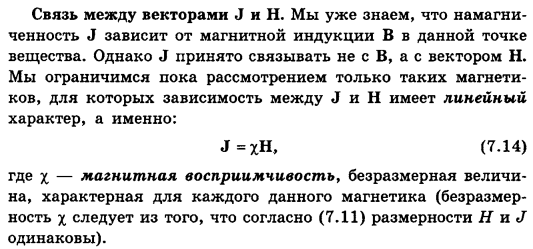




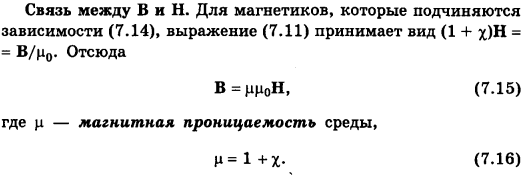


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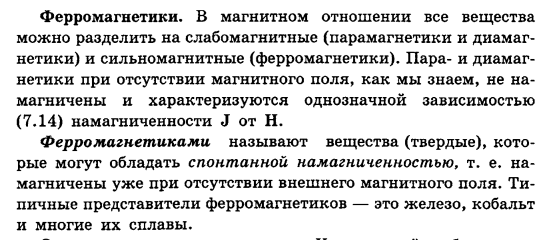
Магнитная восприимчивость:

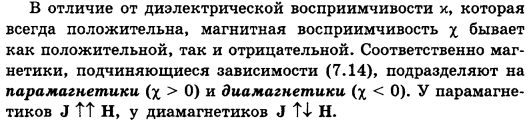


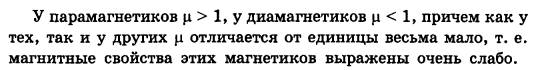
Магнитная проницаемость:



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