**Elektrik Alan Çalışma Kağıdı**

Arabanın içindeyken arabanıza yıldırım düşse ne olur? Arabanız zarar görür mü? Siz zarar görür müsünüz? Neden?

**Yıldırım Düşen Araba**



**Elektriksel Alan Çizgileri**

İki negatif yük için

İki pozitif yük için

Bir pozitif bir negatif yük için

* Yük fazla olursa elektrik alan çizgilerine ne olur?

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* Cisim içerisinde elektrik alan olur mu?

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* Elektrik alan çizgileri birbirini keser mi?

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* Elektrik alan çizgilerinin başı ve sonu nerede?

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**Gösteri Deneyi:**

Malzemeler

* 2 adet cep telefonu ve alüminyum folyo

Yapılışı

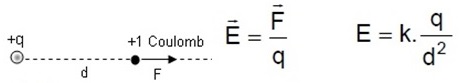
* İki telefonun da zil seslerini açalım.
* Elimizdeki folyoyu açalım ve üzerine 1. telefonu yerleştirelim.
* 2. telefondan 1. yi arayalım.
* Folyoyu 1. telefonun etrafına tamamen saralım ve tekrar arayalım.
* Telefon folyoyu etrafına sarmadan önce çalarken, sardıktan sonra çalmıyor. Neden?

Cevaplayalım

* Faraday kafesi içindeki insana neden elektrik çarpmaz?
* Arabaya yıldırım düşerse ne olur?
* Folyo ile sardığımız telefon neden çalmadı?

Cevap: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

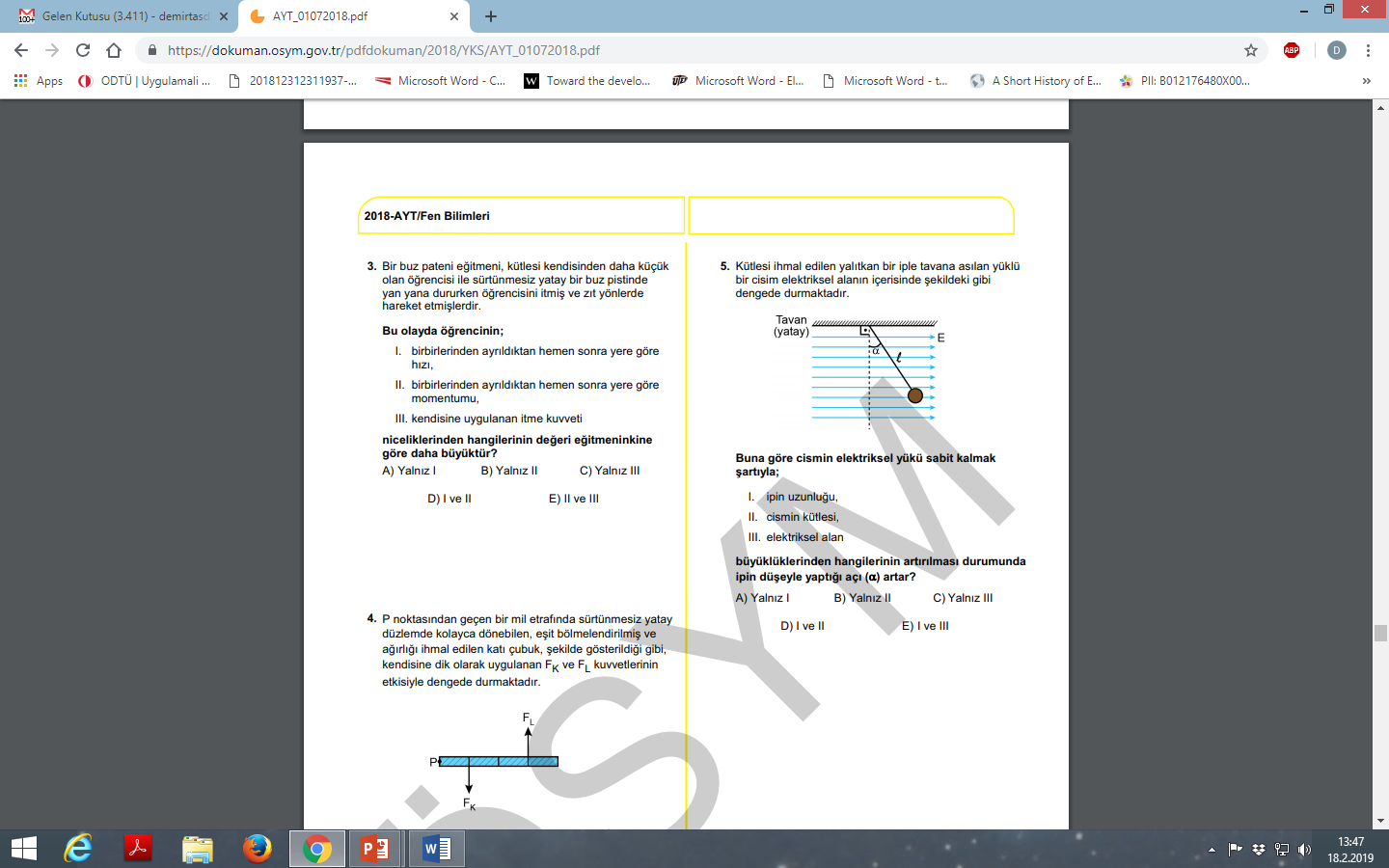
**Elektrik Alanı: Birim ve Formül**

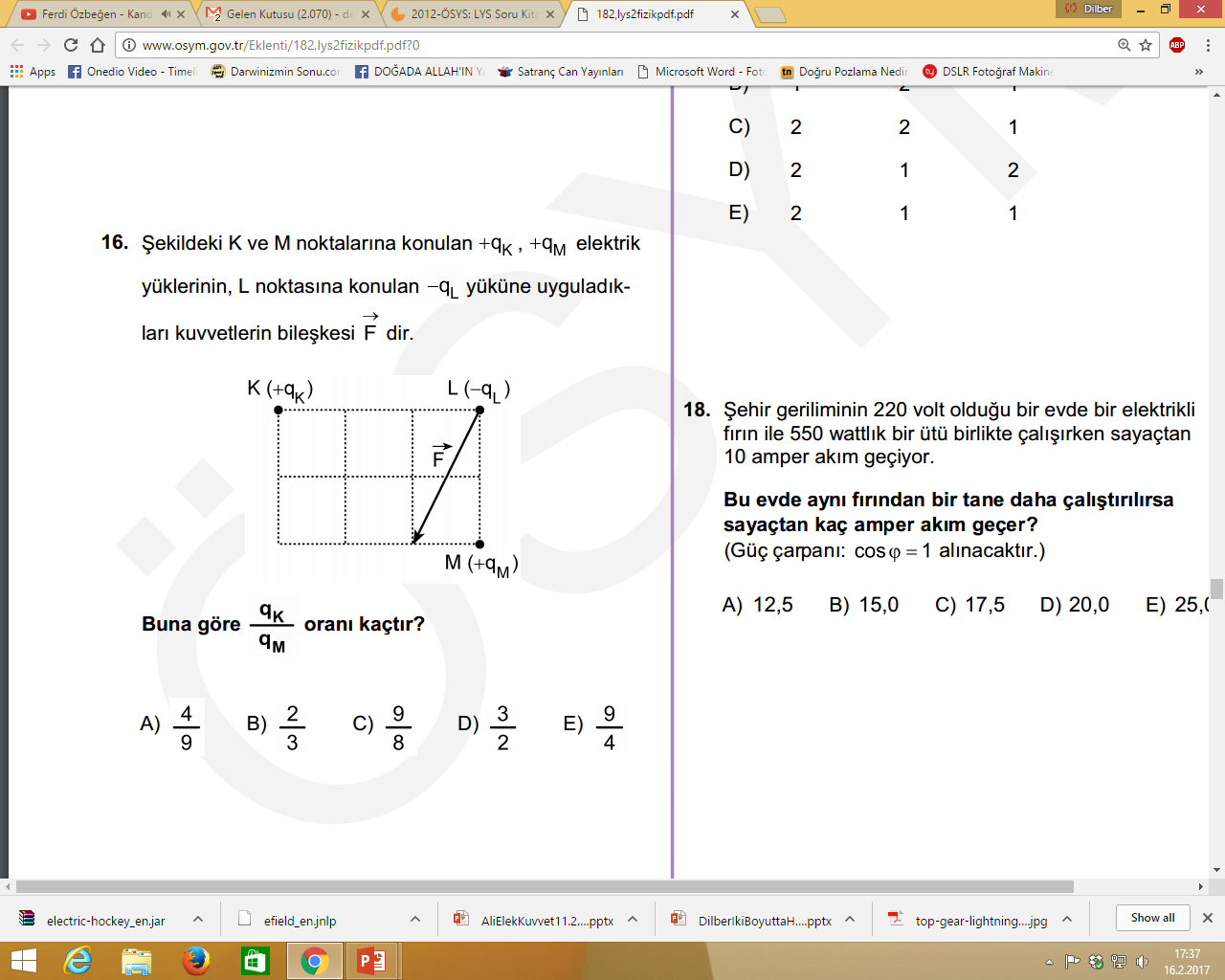




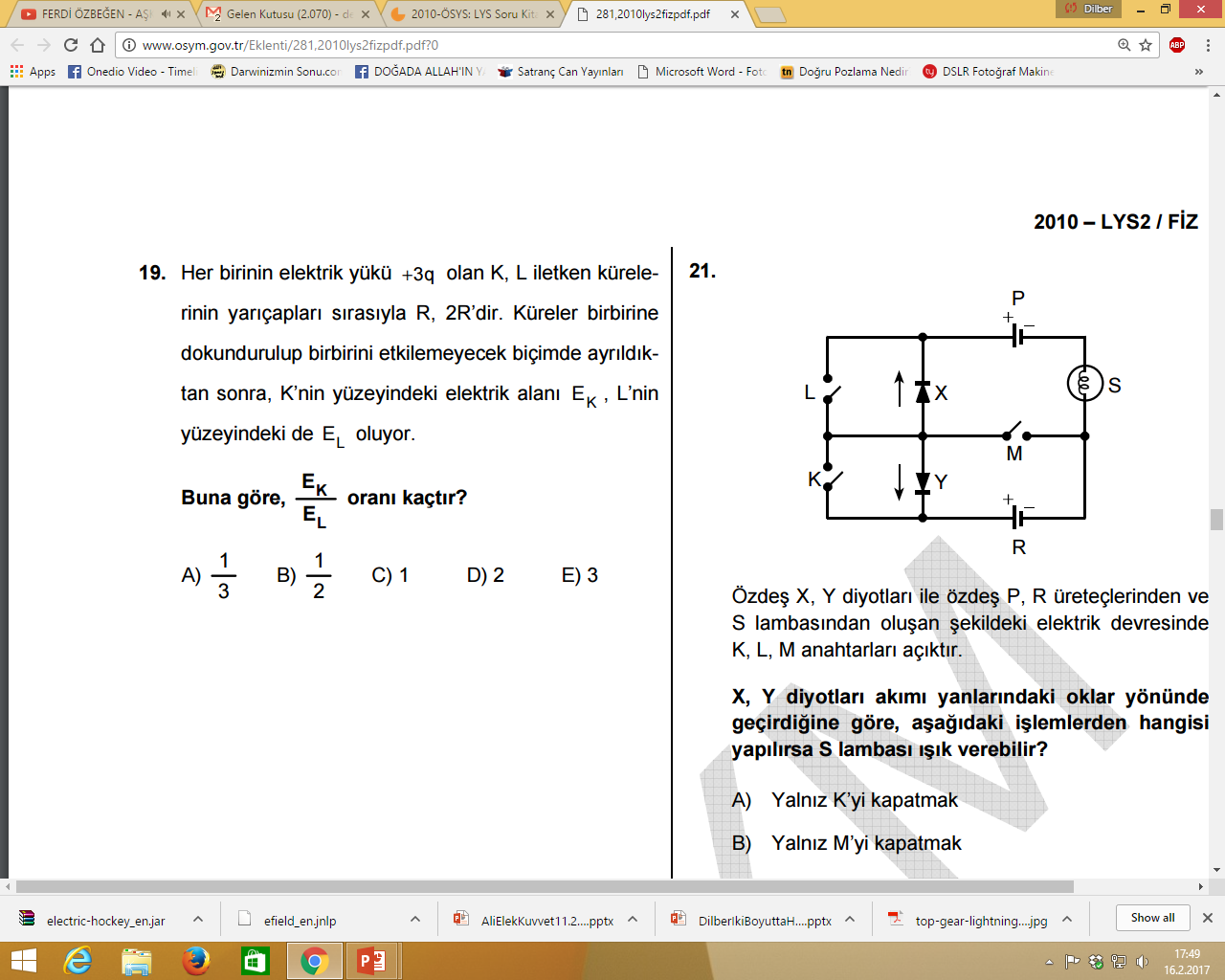
**Soru Çözümü**

**1)**

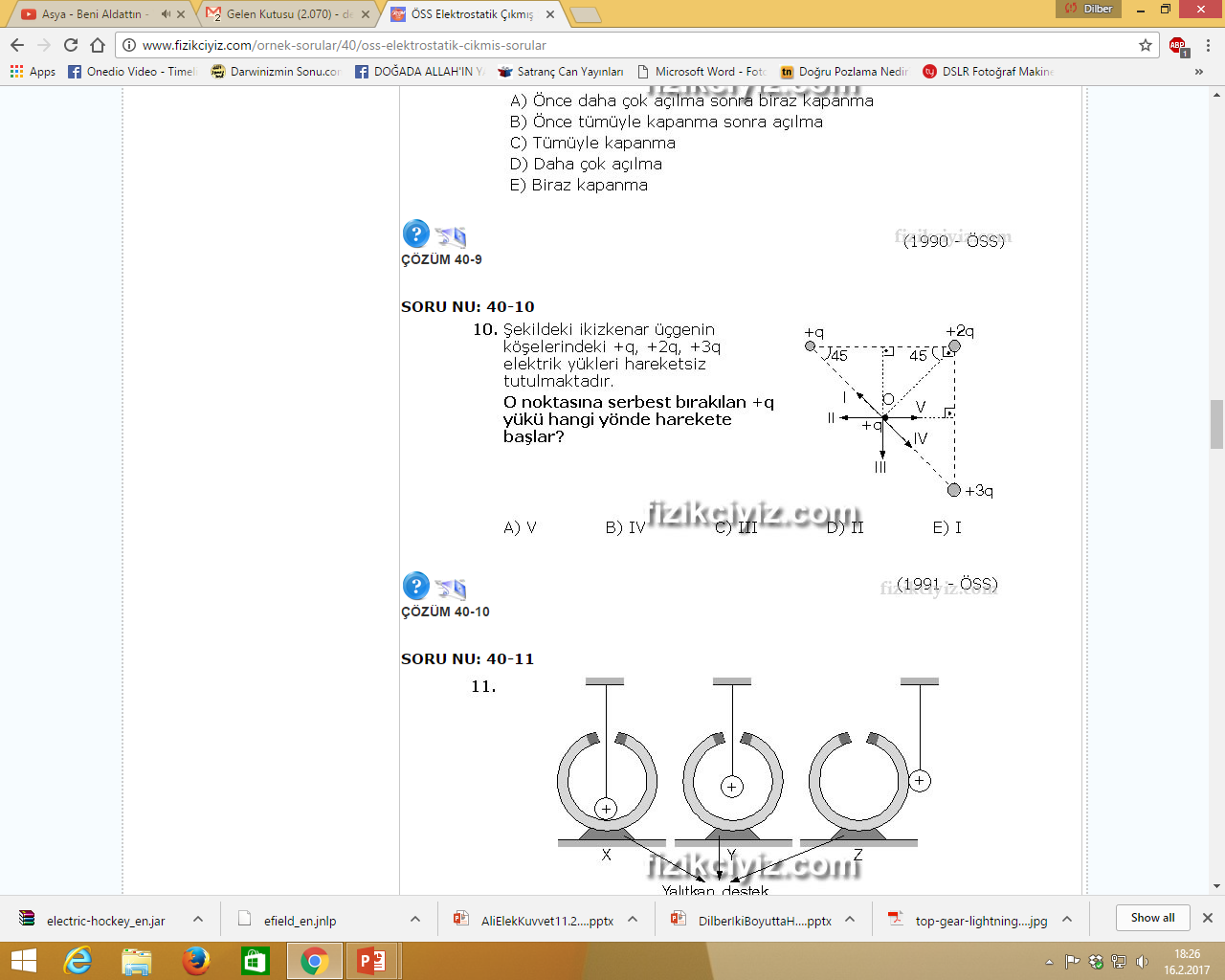
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**2)**

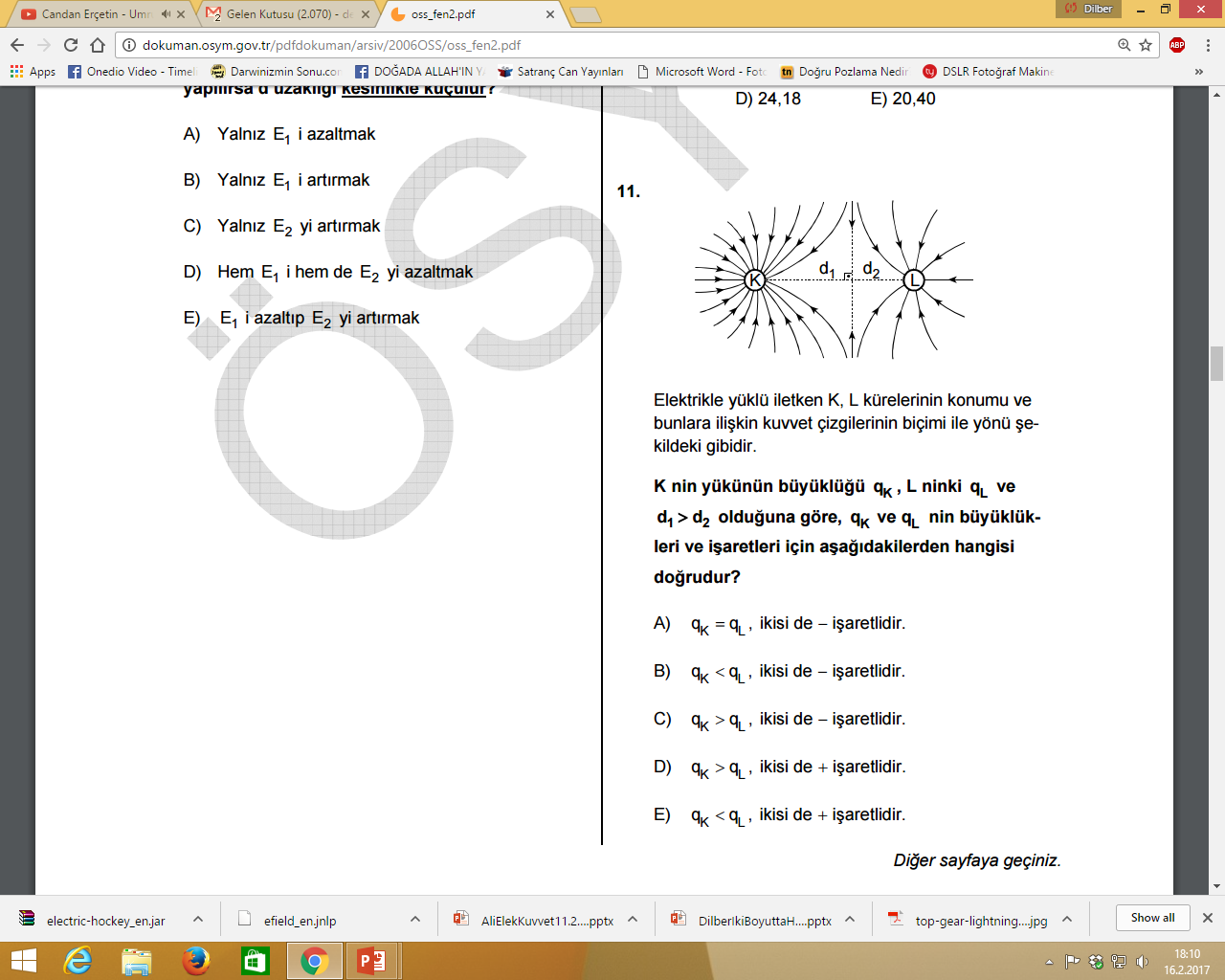
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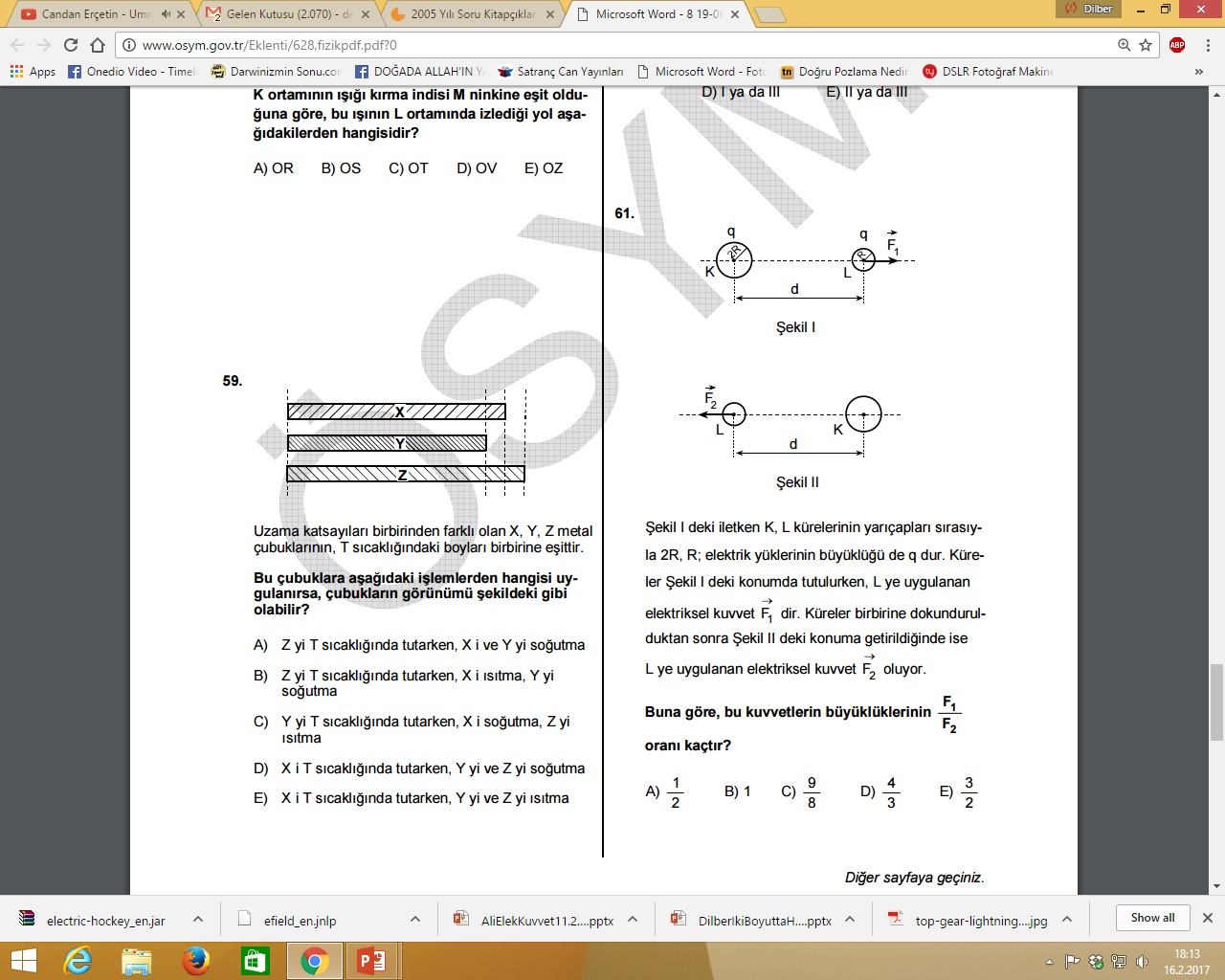
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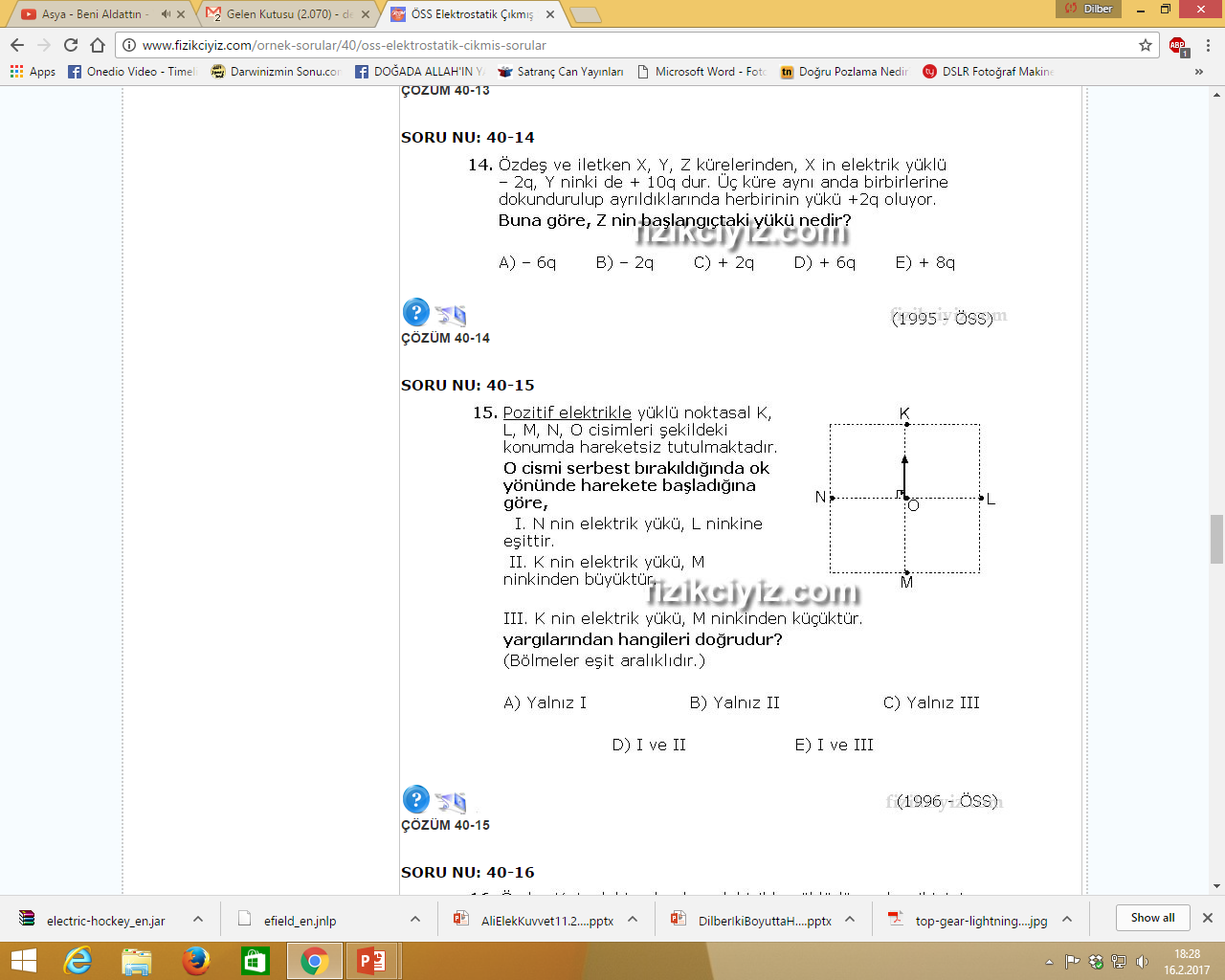
**5)**



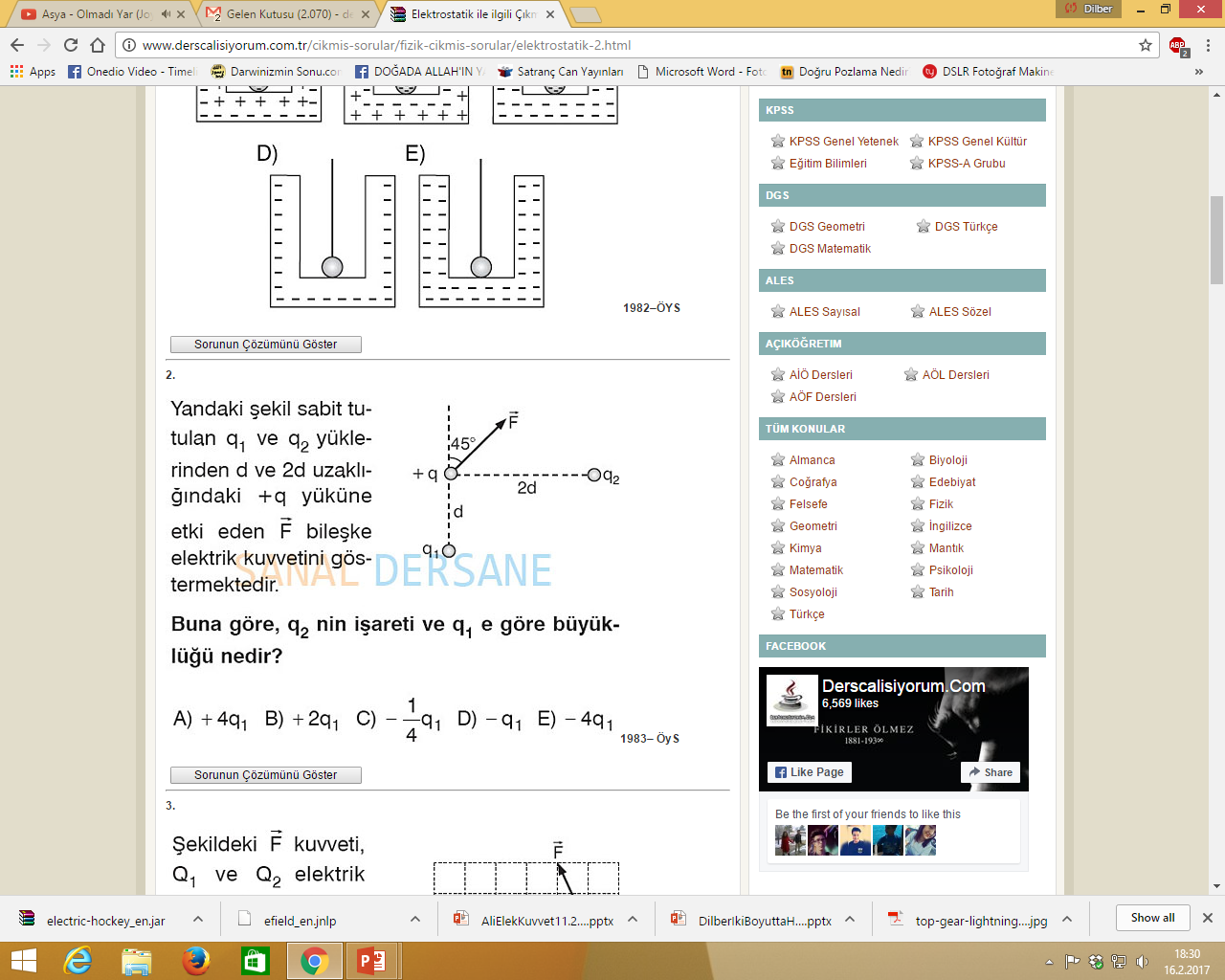
**6)**



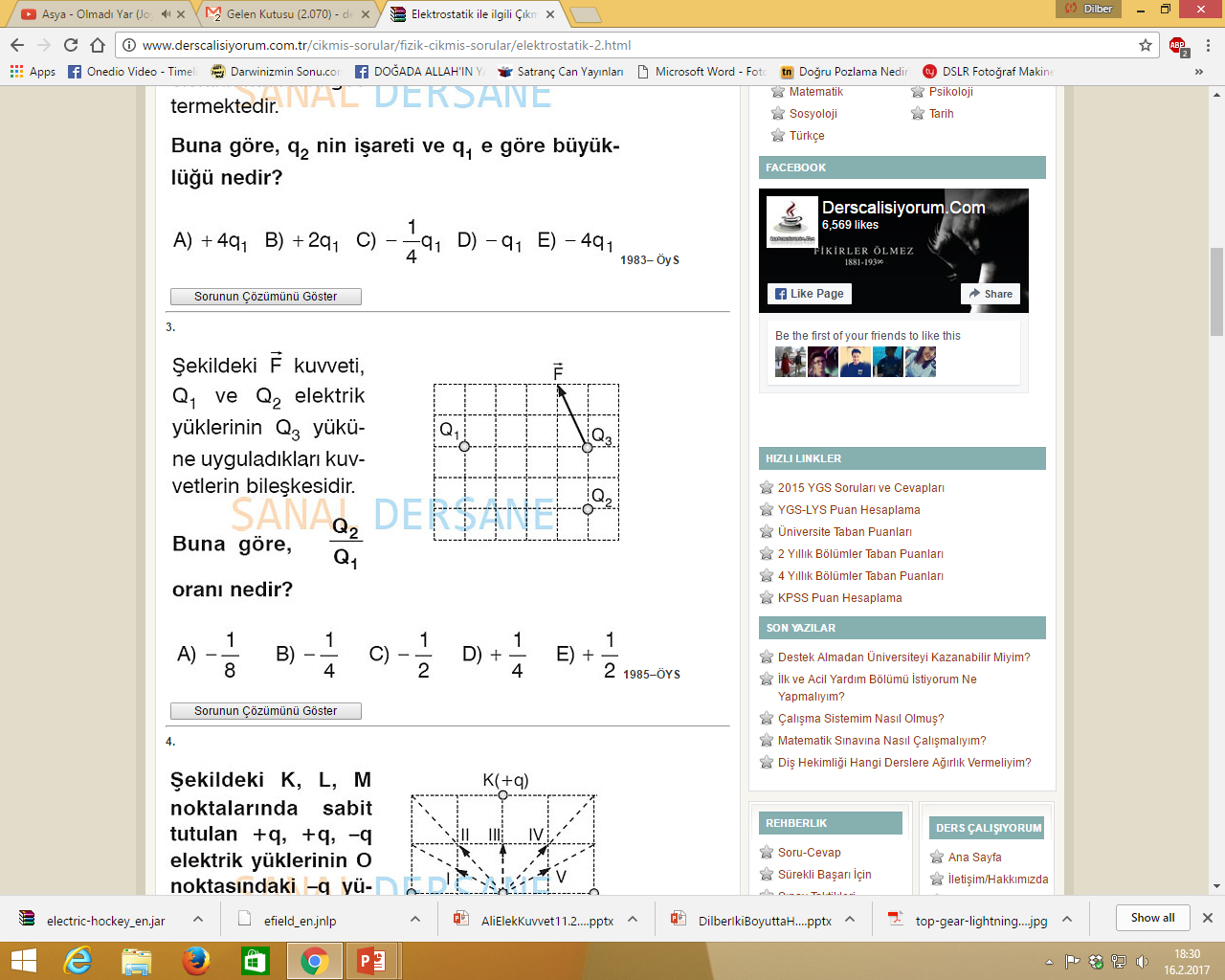
**7)**

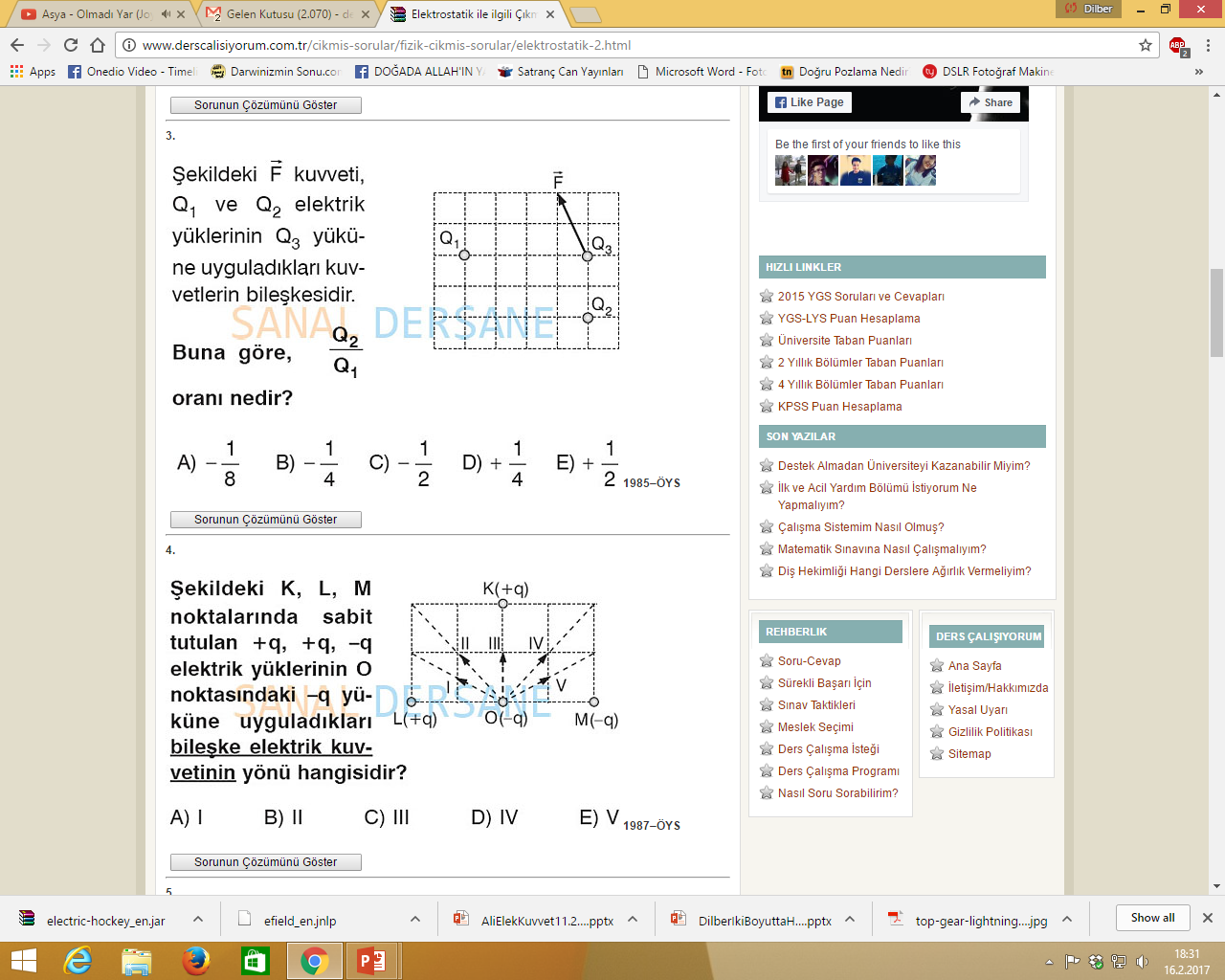


**8) 8)**

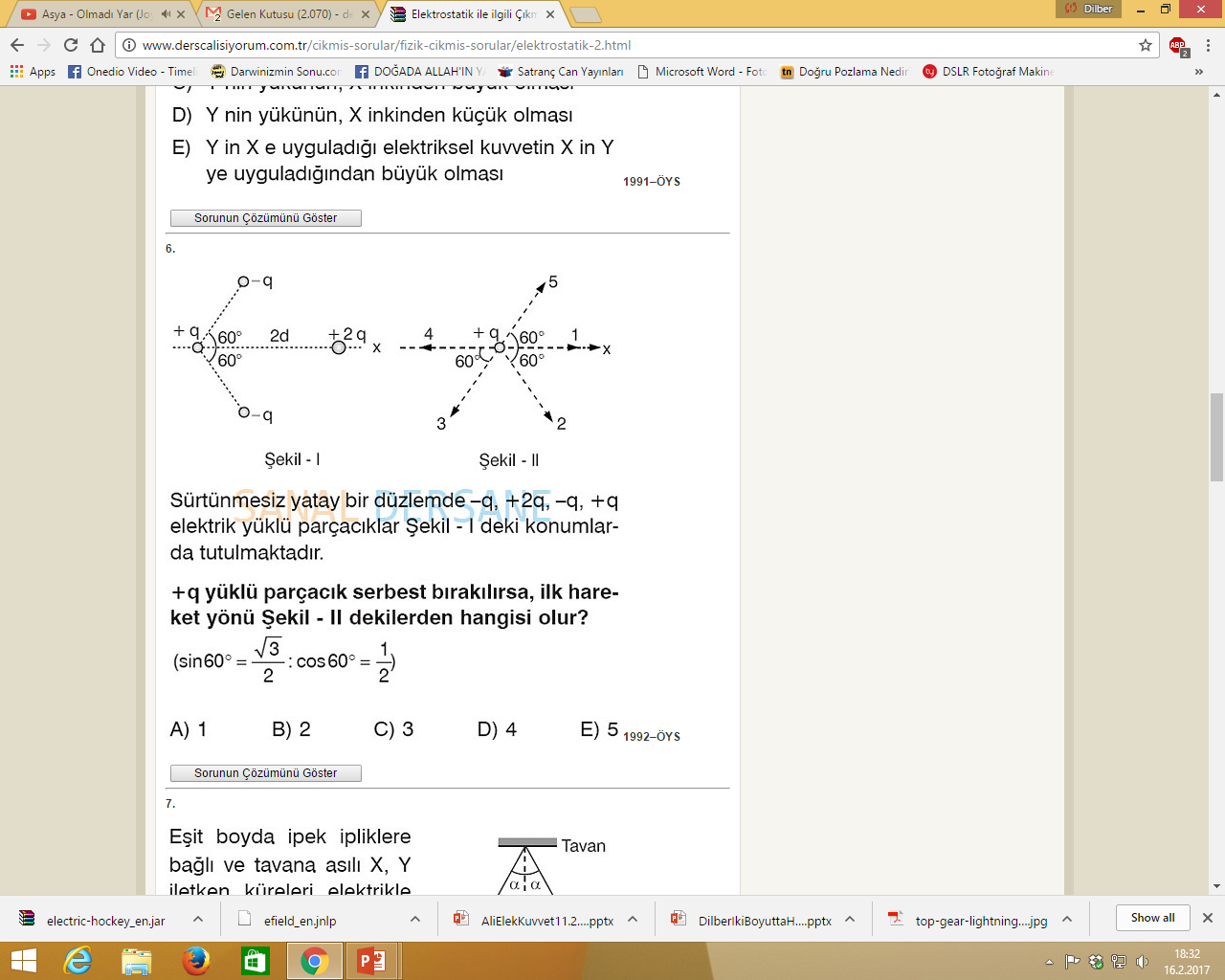


**9)**

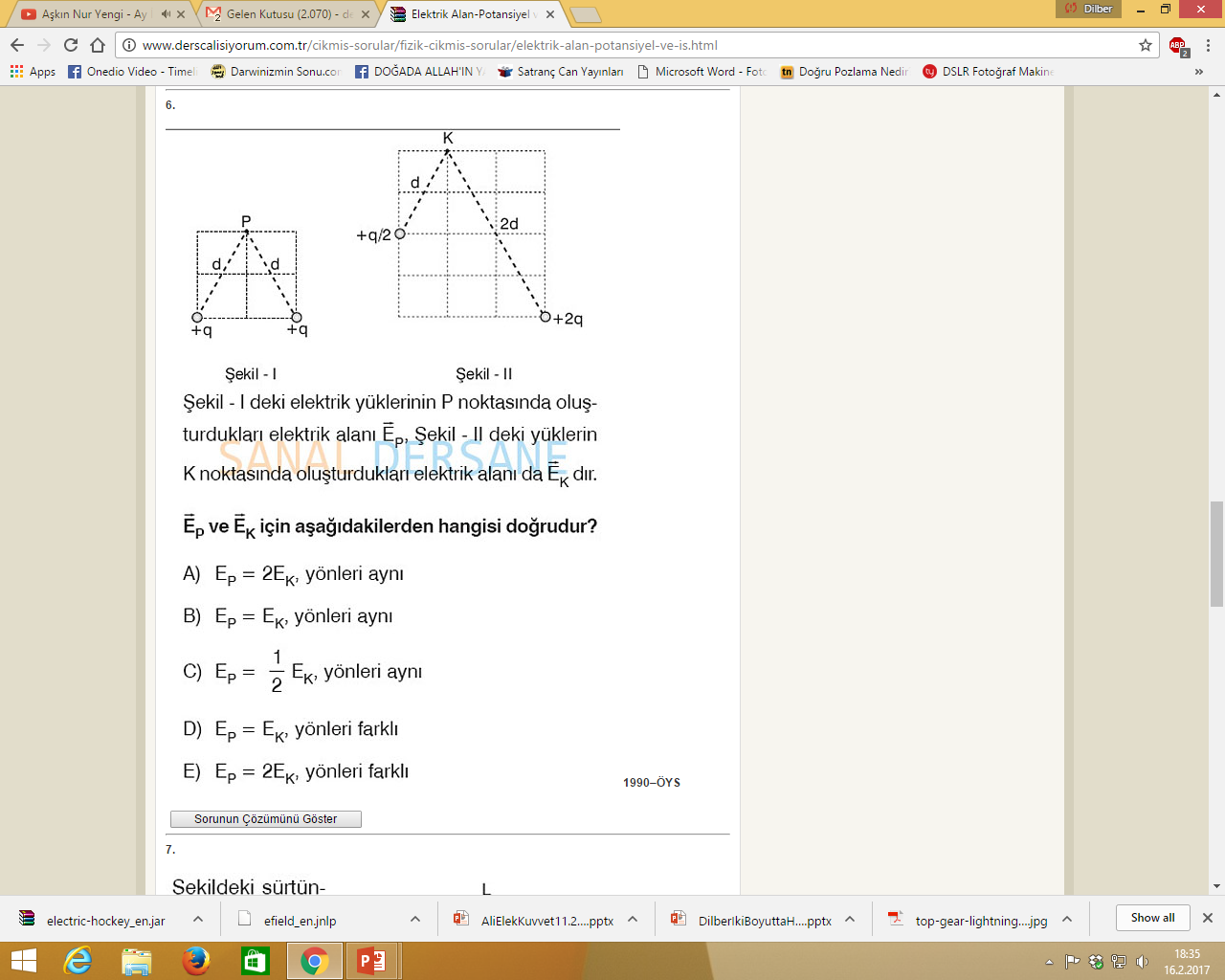


**10)** 

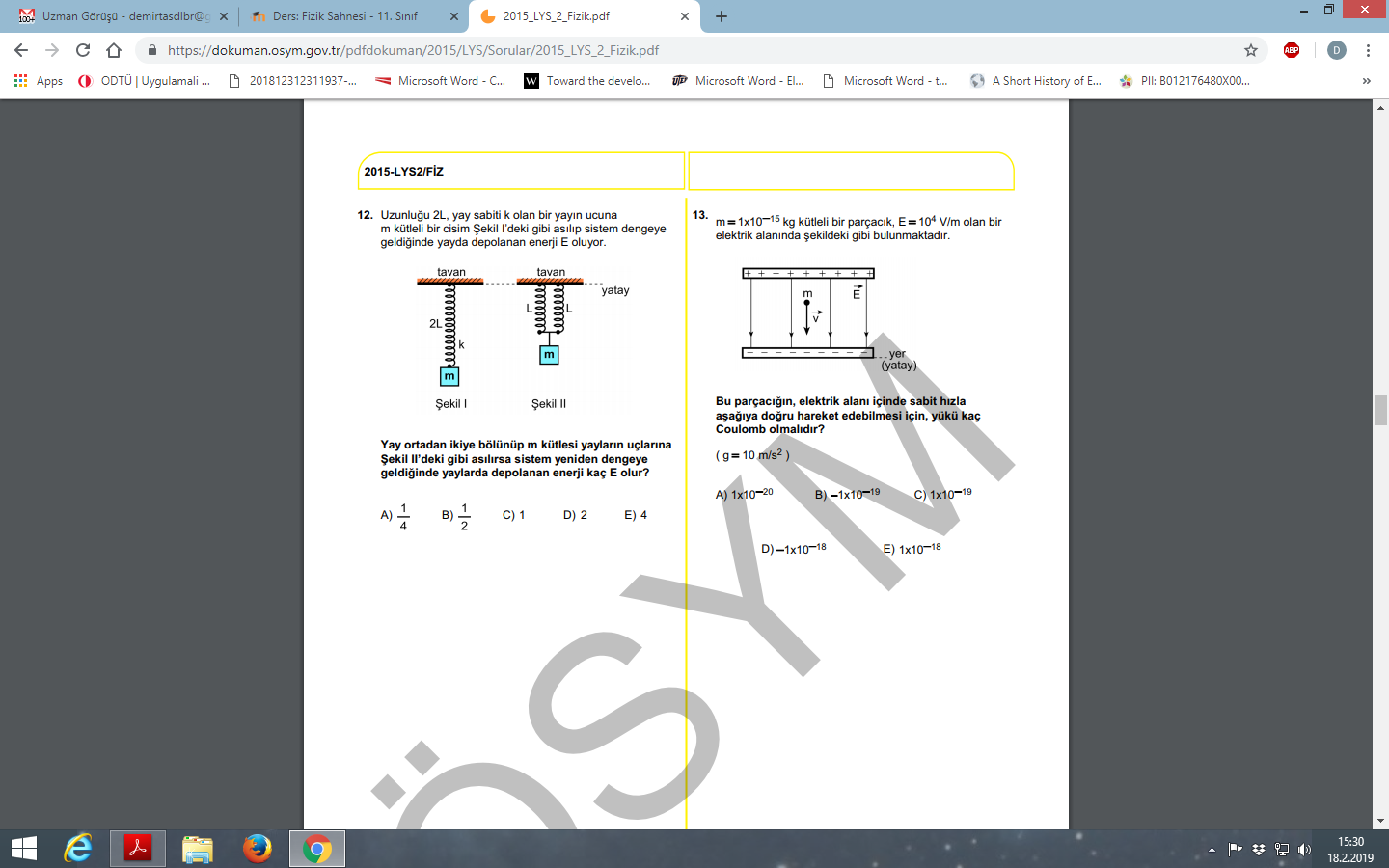
**11)**



**12)**



**13)**



**14)**

