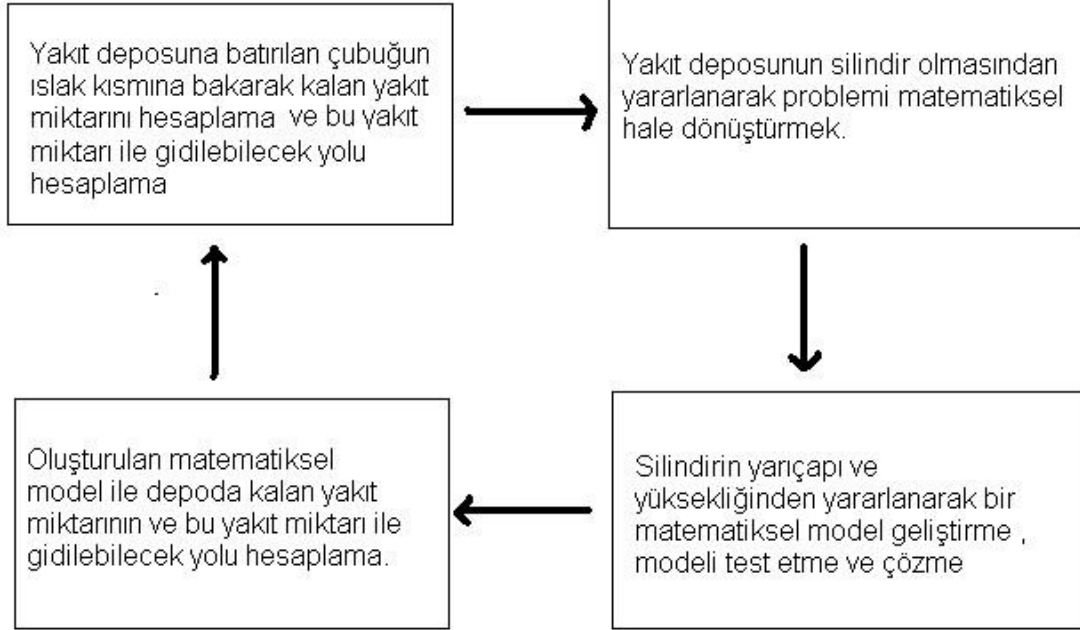
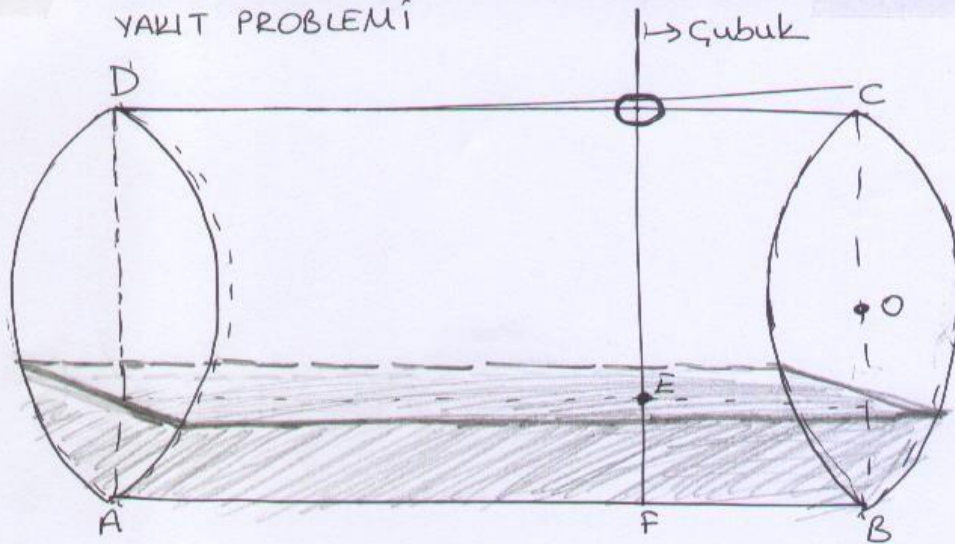


YAKIT PROBLEMİ ÇÖZÜMÜ



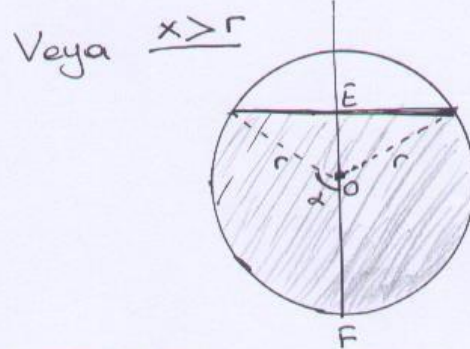
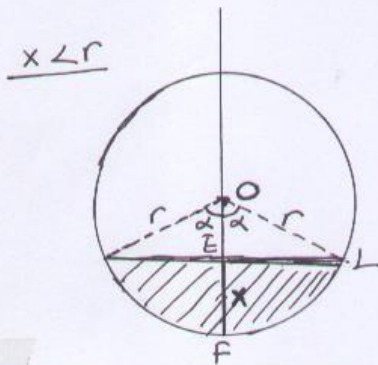
YAKIT PROBLEMİ



$$|AB| = h$$

$$|AD| = 2r$$

$$|EF| = x \text{ (İstlenen kısım)}$$



$$|EF| = x \quad |OE| = r - x$$

$$\triangle OEL \text{ de } \cos \alpha = \frac{r-x}{r} \Rightarrow \alpha = \arccos\left(\frac{r-x}{r}\right)$$

$$\begin{aligned} \text{Yaralı alan;} \quad S &= \pi r^2 \cdot \frac{2\alpha}{360} - \frac{1}{2} r^2 \cdot \sin 2\alpha \\ &= r^2 \left(\pi \cdot \frac{\alpha}{180} - \frac{\sin 2\alpha}{2} \right) \end{aligned}$$

$$\text{Hacim: } V = h \cdot S \text{ br}^3$$

$$h = 60 \text{ cm}$$
$$r = 20 \text{ cm}$$

$$x = 1 \text{ için } V_1 = \left\{ 60 \cdot 20^2 \left[\frac{\pi}{180} \arccos \frac{19}{20} - \frac{1}{2} \cdot \sin \left(2 \arccos \frac{19}{20} \right) \right] \right\} : 1000$$
$$= 0.50 \text{ lt}$$

$$x = 39 \text{ için } V_2 = \left\{ 60 \cdot 20^2 \left[\frac{\pi}{180} \arccos \left(-\frac{19}{20} \right) - \frac{1}{2} \cdot \sin \left(2 \arccos \left(-\frac{19}{20} \right) \right) \right] \right\} : 1000$$
$$= 74.90 \text{ lt}$$

$$\text{Depo'nun Hacmi: } V = 60 \cdot 20^2 \cdot \pi = 75,40 \text{ lt}$$

$$\text{Dikkat edilirse } V = V_1 + V_2 \text{ dir.}$$

1 lt yakıt ile yaklaşık 11km yol gidilirse v lt yakıt ile 11v km gidilir.

Gİ:KÜP

Hasan Korkmaz
Tüley Metin
Ezgi Çöpür

1	cm(uzunluk)	litre	Gidebileceği yol.
2	1	0,50	5,52
3	2	1,41	15,50
4	3	2,57	28,26
5	4	3,92	43,16
6	5	5,44	59,84
7	6	7,09	78,01
8	7	8,86	97,48
9	8	10,74	118,09
10	9	12,70	139,68
11	10	14,74	162,14
12	11	16,85	185,37
13	12	19,02	209,27
14	13	21,25	233,74
15	14	23,52	258,70
16	15	25,83	284,08
17	16	28,16	309,80
18	17	30,53	335,79
19	18	32,91	361,98
20	19	35,30	388,30
21	20	37,70	414,69
22	21	40,10	441,08
23	22	42,49	467,40
24	23	44,87	493,59
25	24	47,23	519,58
26	25	49,57	545,30
27	26	51,88	570,68
28	27	54,15	595,64
29	28	56,37	620,11
30	29	58,55	644,01
31	30	60,66	667,24
32	31	62,70	689,70
33	32	64,66	711,29
34	33	66,54	731,90
35	34	68,31	751,37
36	35	69,96	769,54
37	36	71,47	786,22
38	37	72,83	801,12
39	38	73,99	813,88
40	39	74,90	823,86
41	40	75,40	829,38
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53	Boy	60	
54	Yarıçap	20	
55	1 litre ile gitt. Yol	11	

