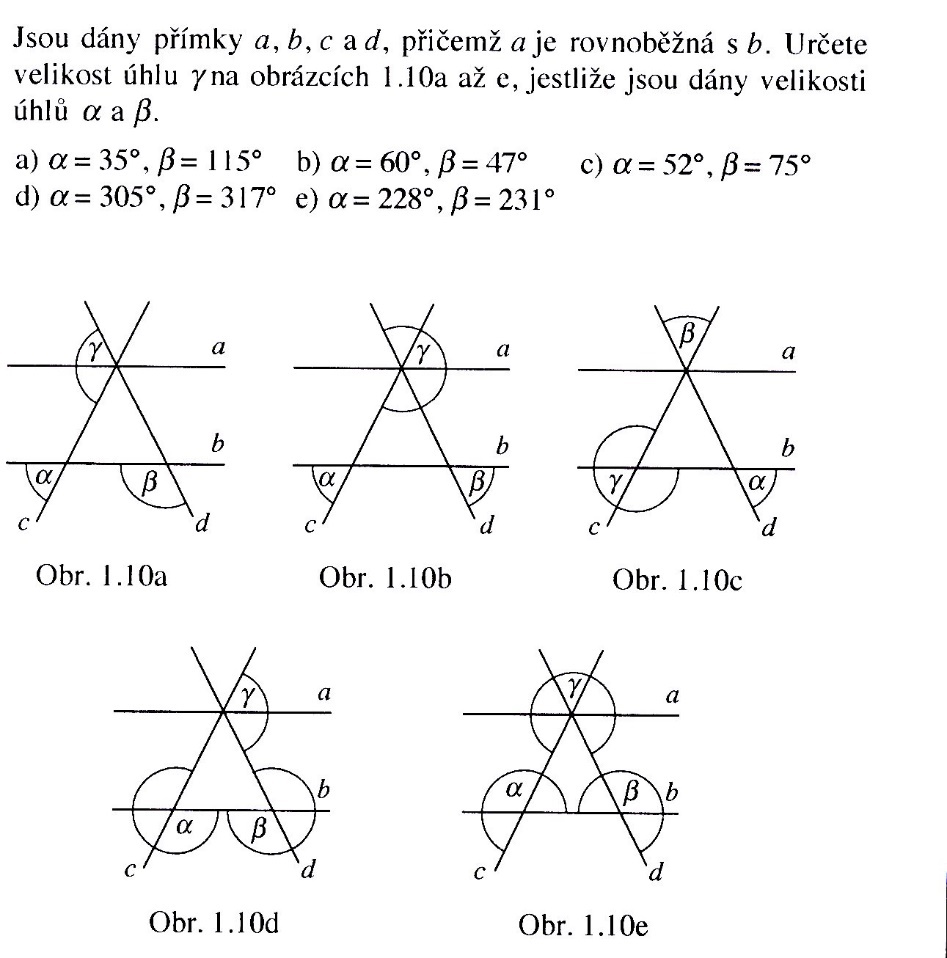
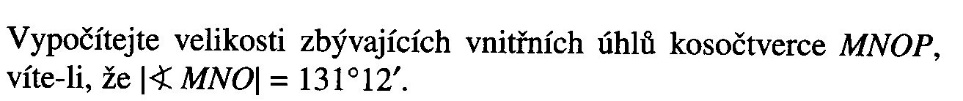
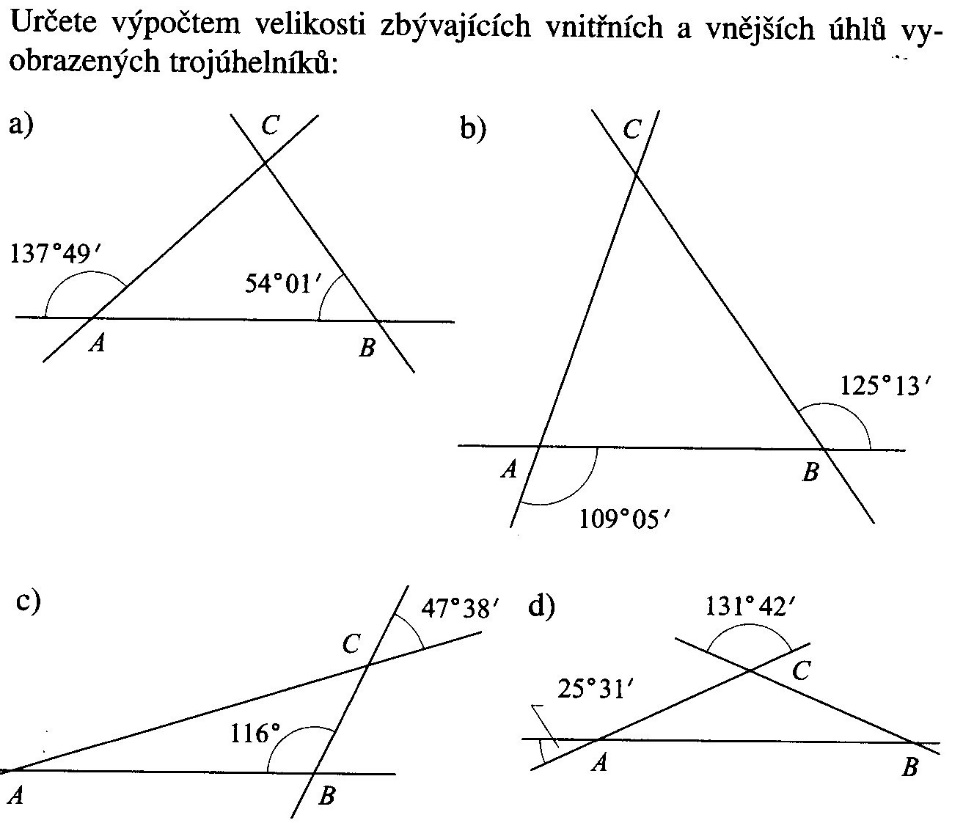
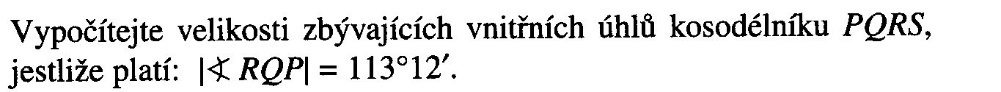
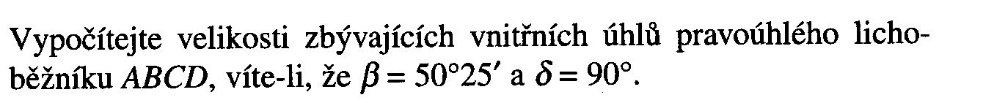
**Přípravný kurz – matematika 7 – 2.část**

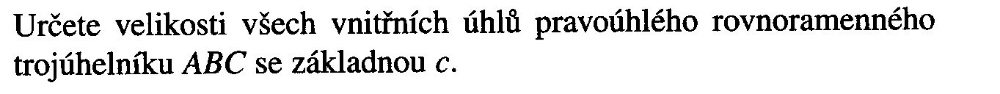
**1.)**

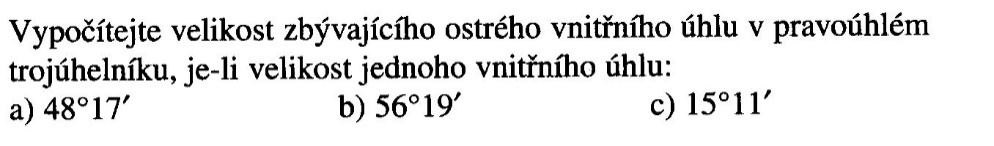
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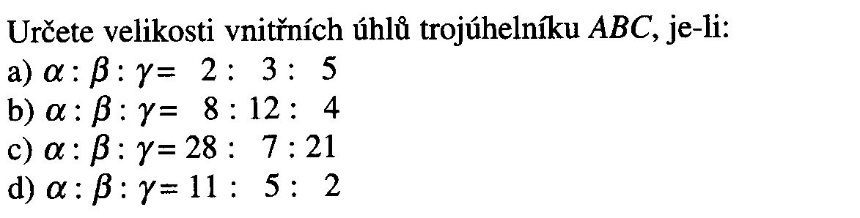
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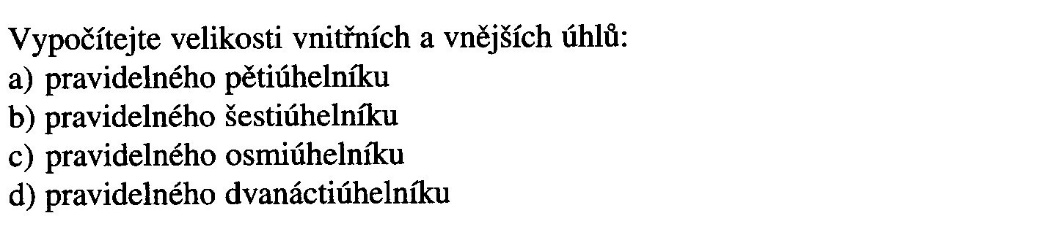
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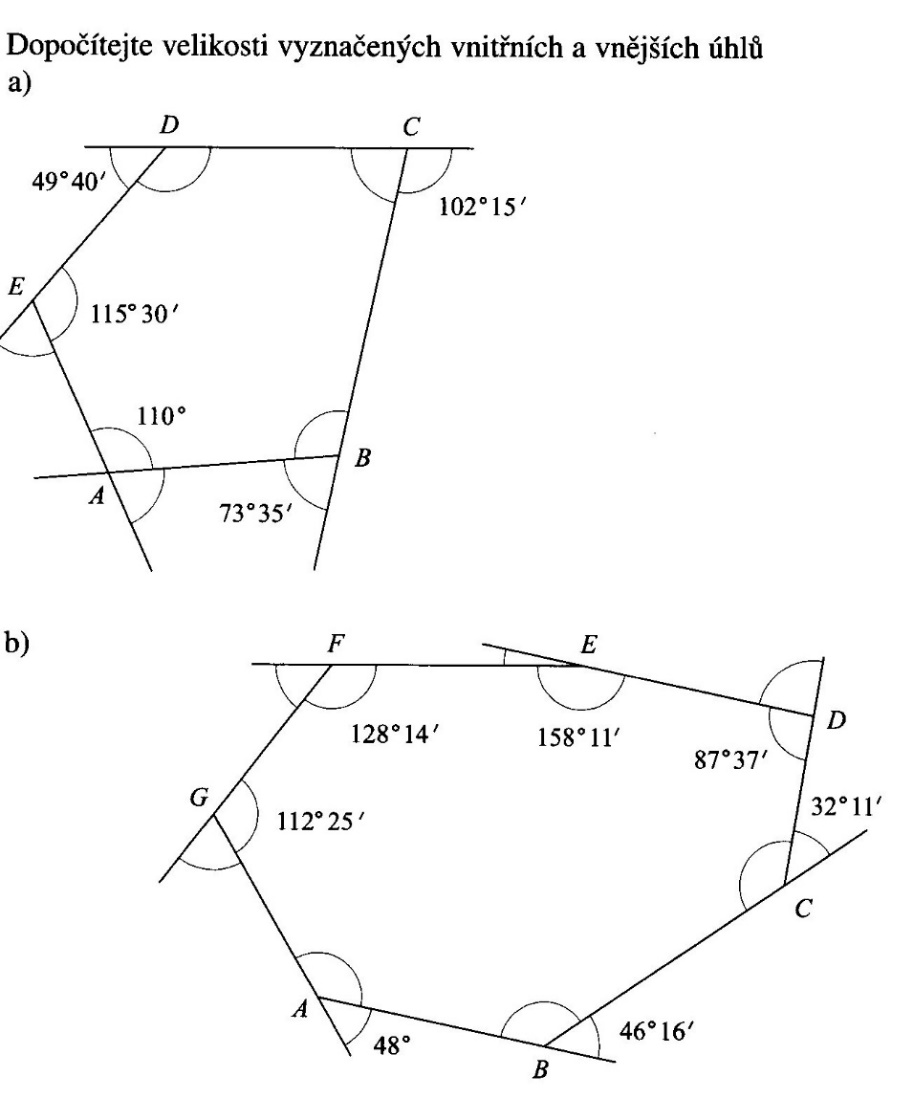
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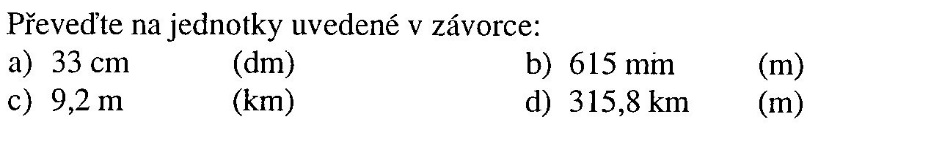
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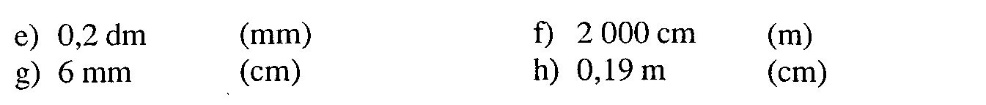
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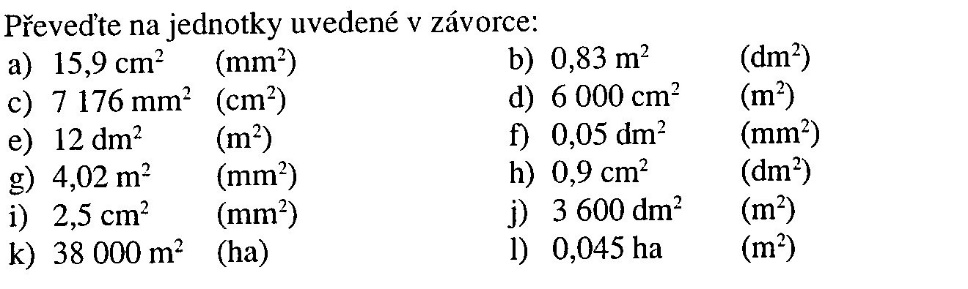
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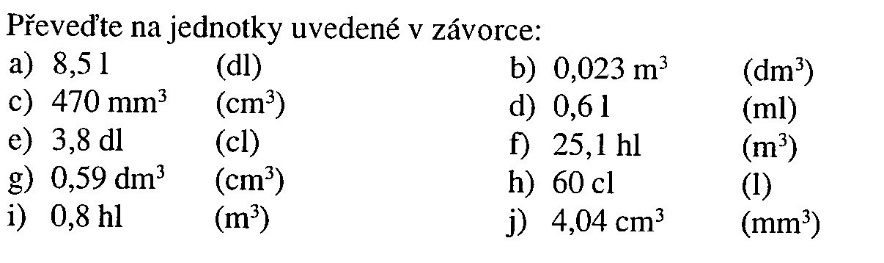
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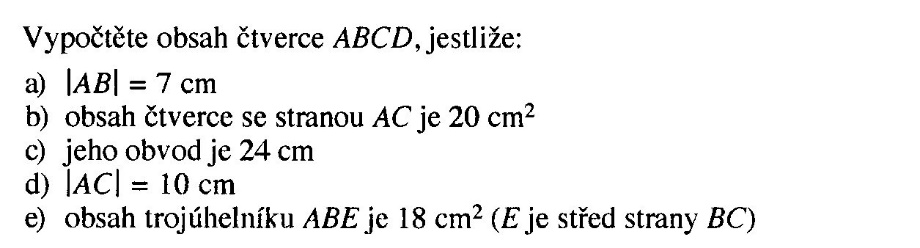
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**11.)**

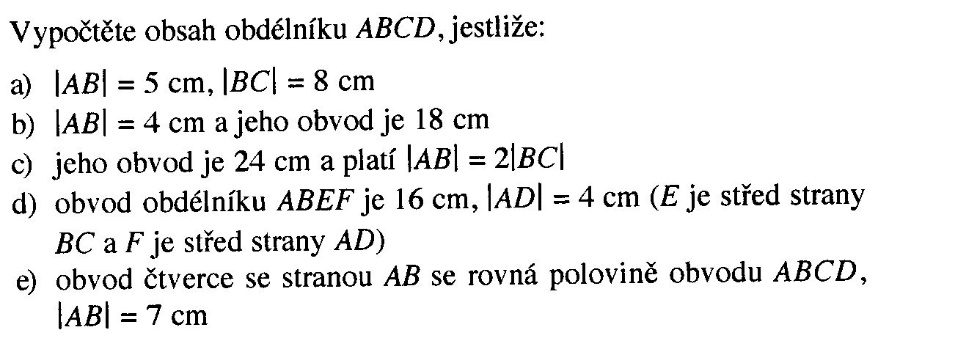


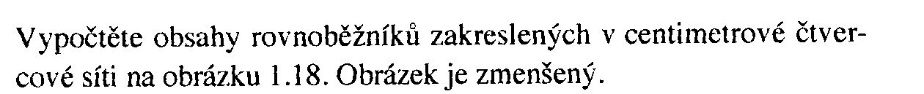
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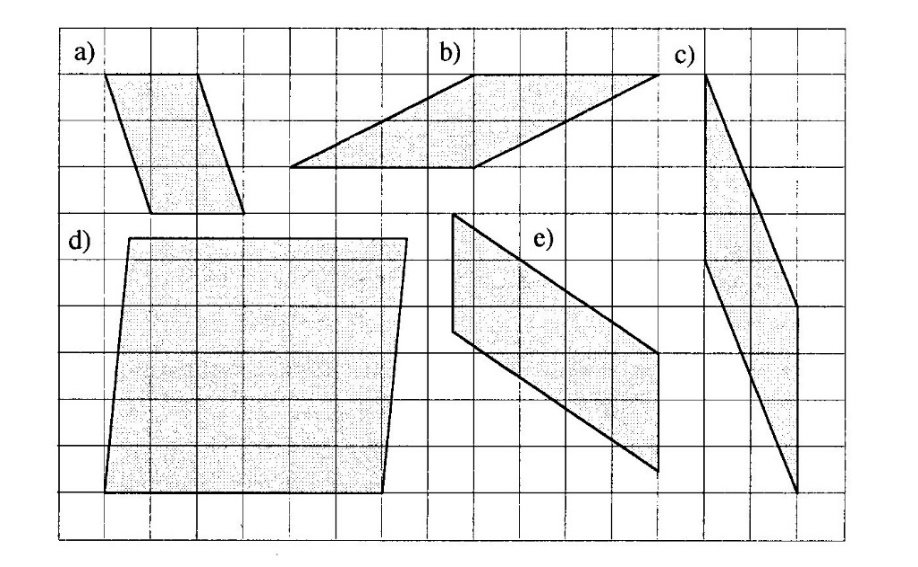
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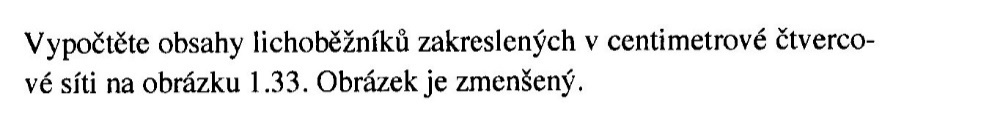


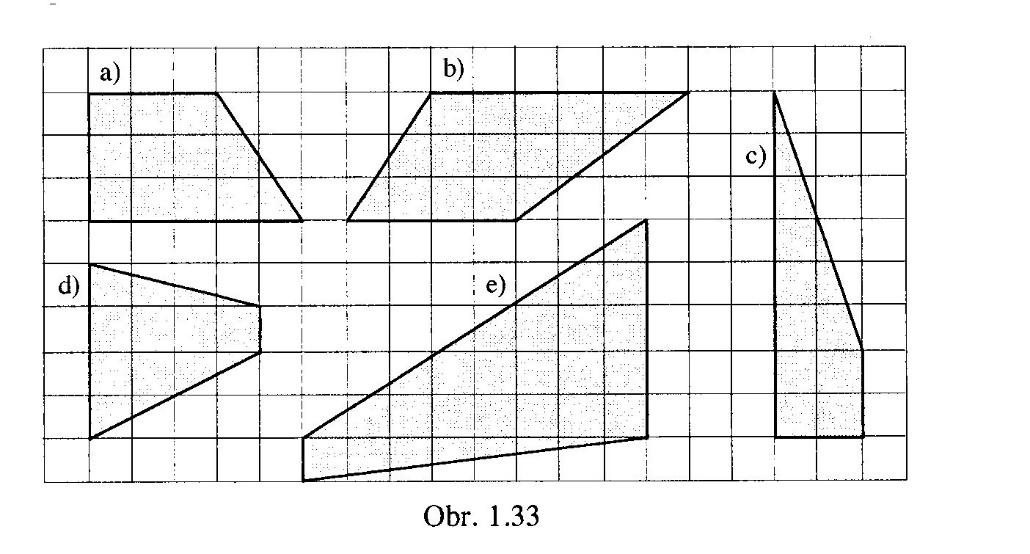
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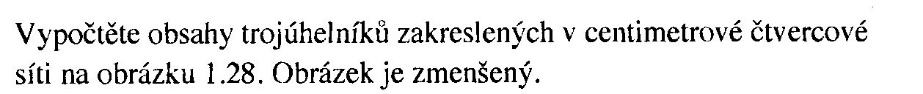
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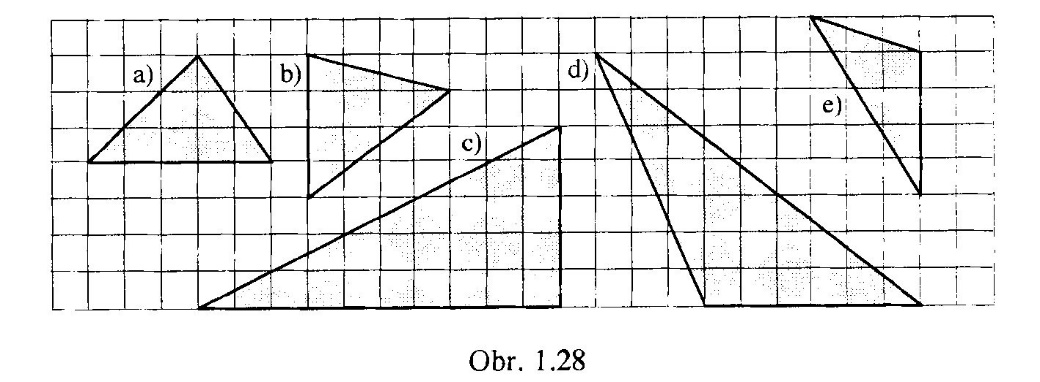
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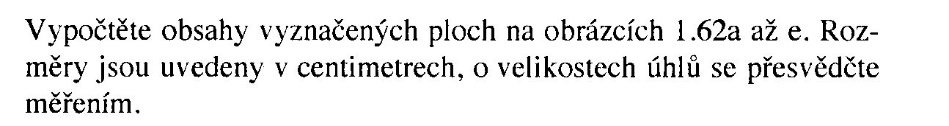


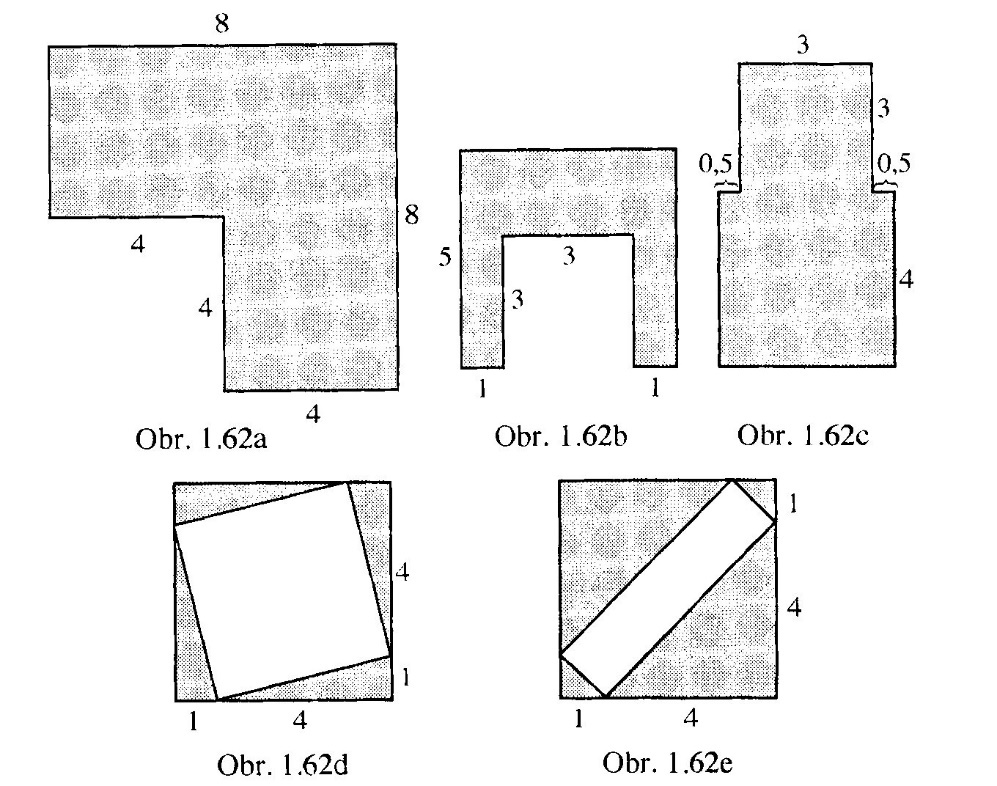
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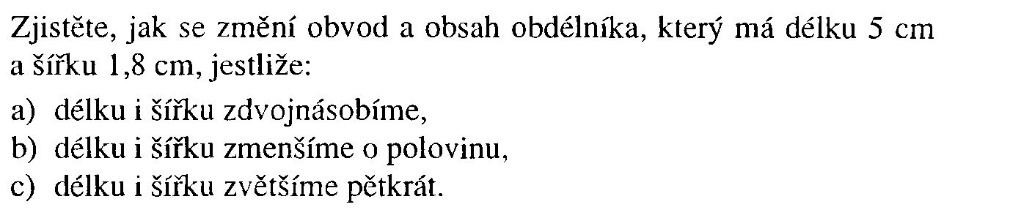


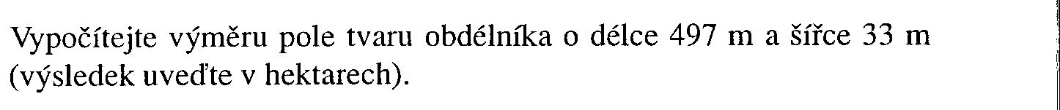
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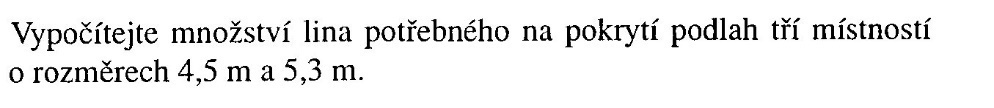


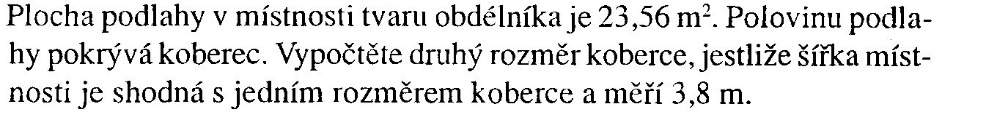
**19.)**

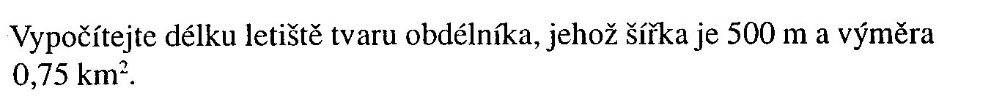


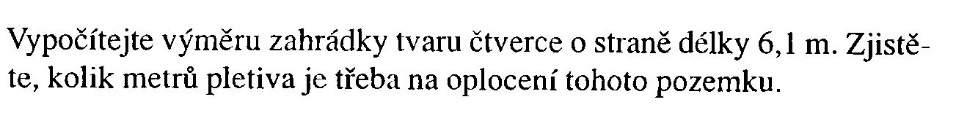
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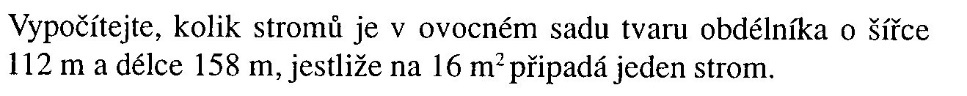
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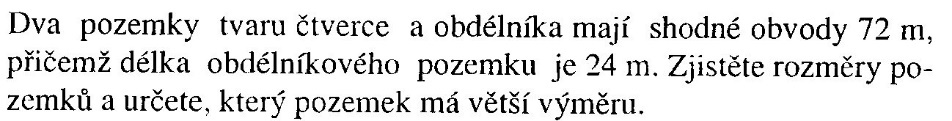
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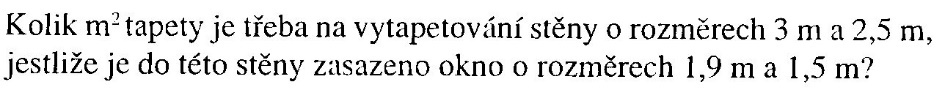
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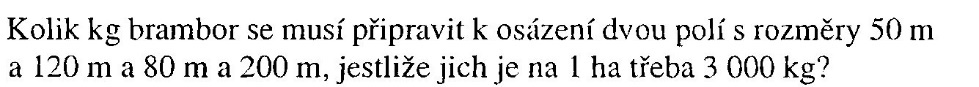
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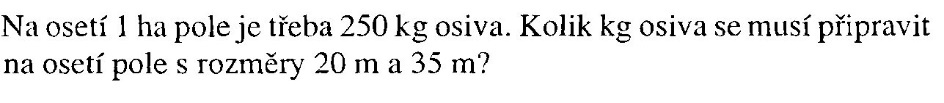
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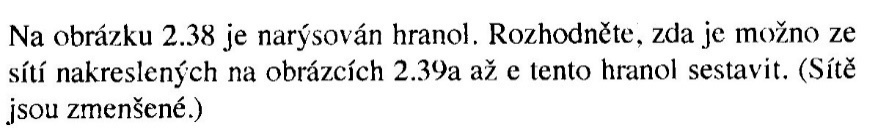
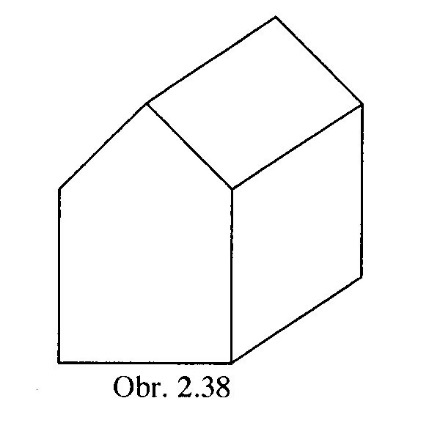
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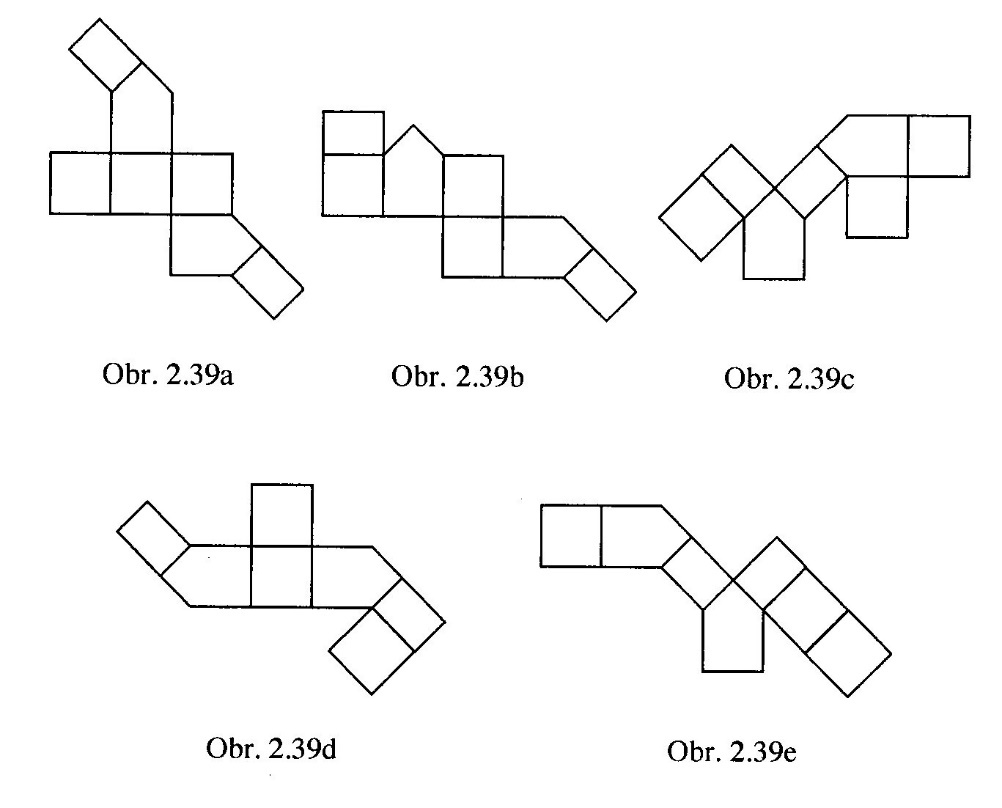
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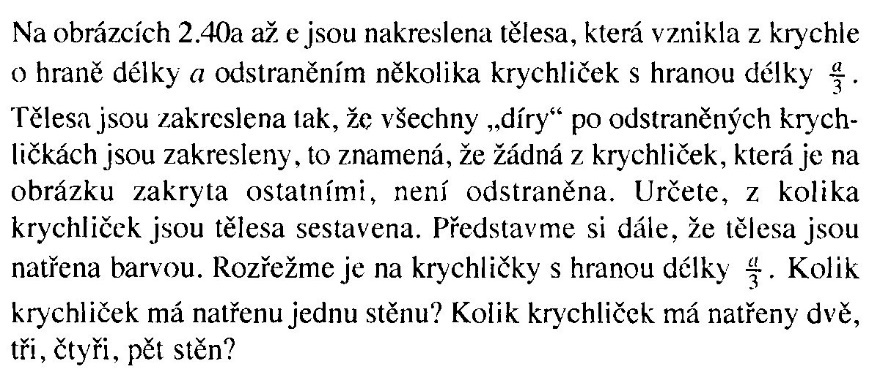
**28.)**

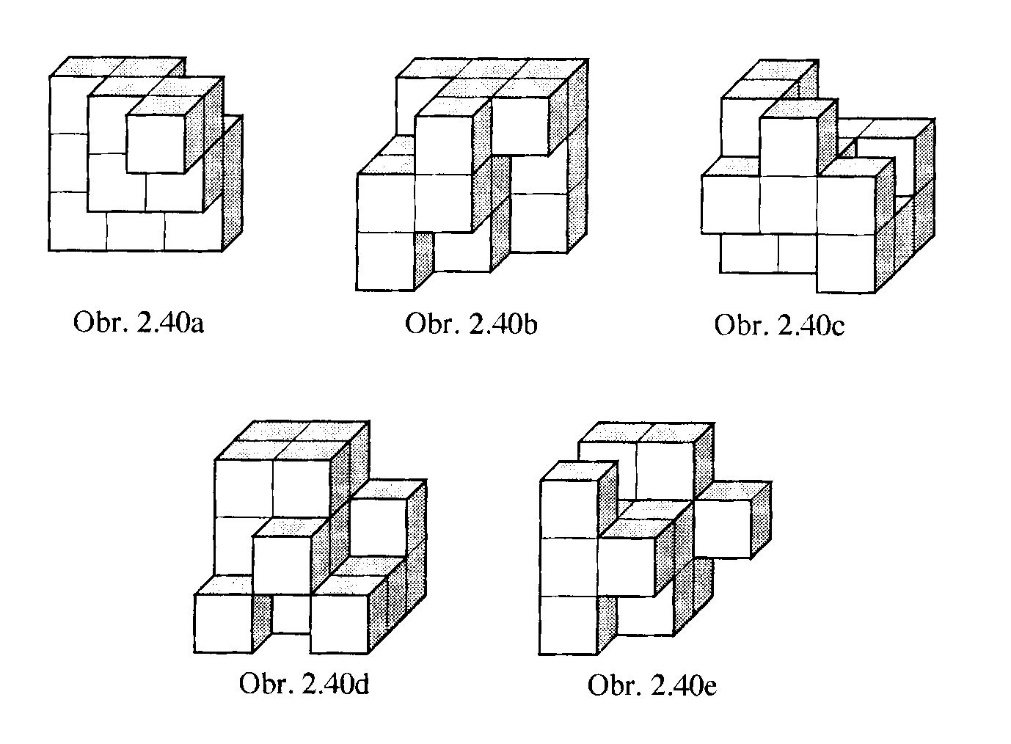
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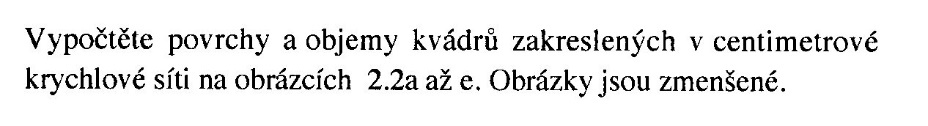
**30.)**

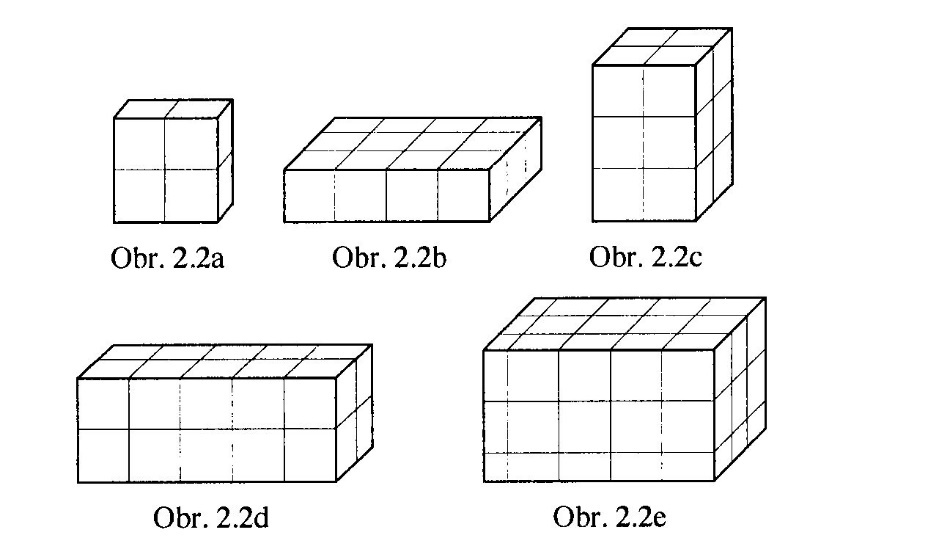
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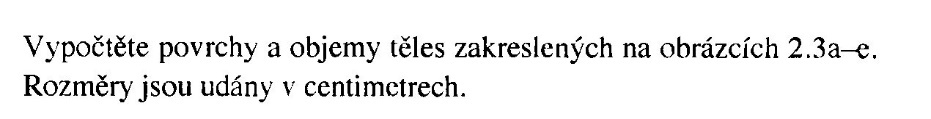


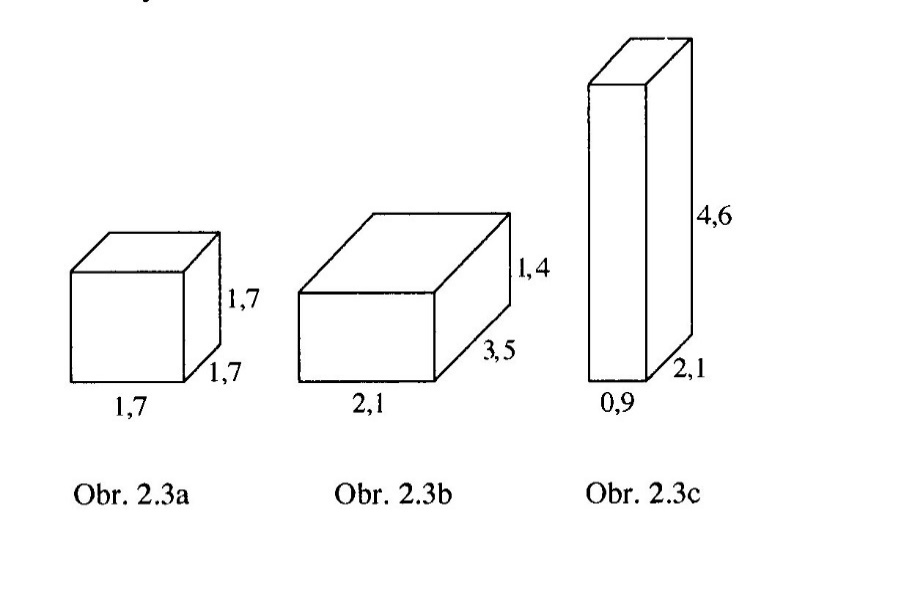
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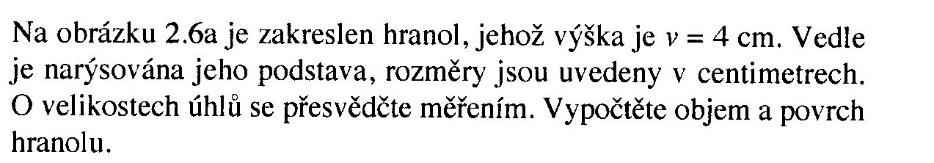


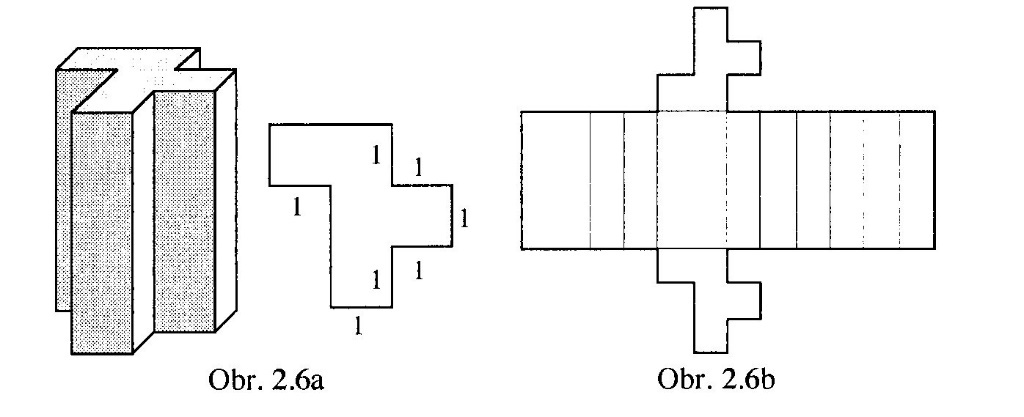
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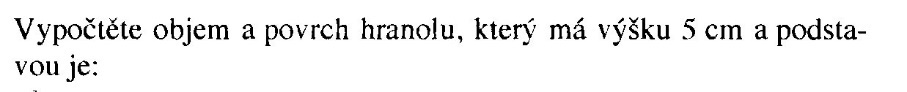


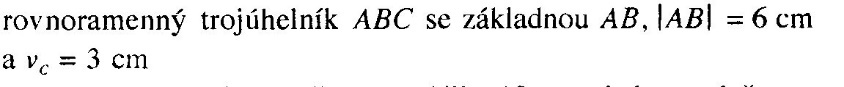
**34.)**

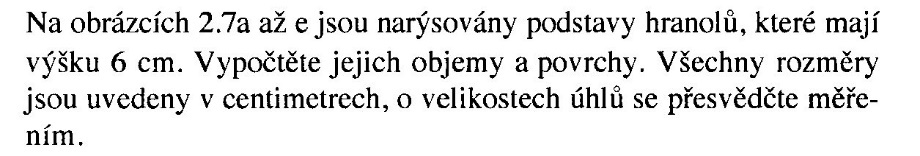


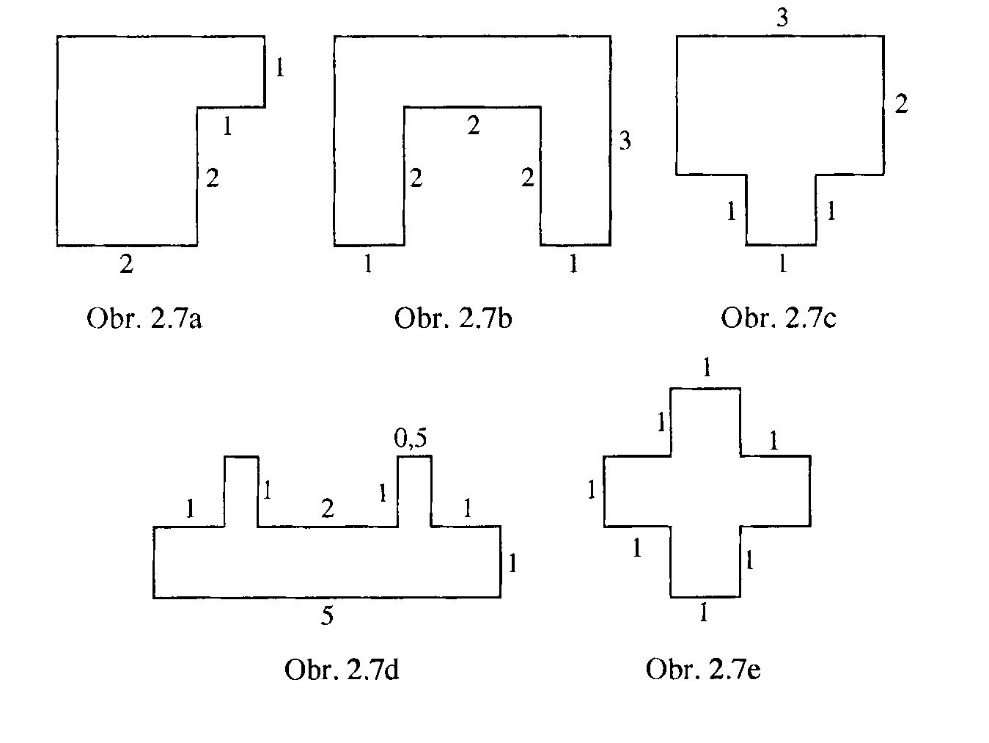
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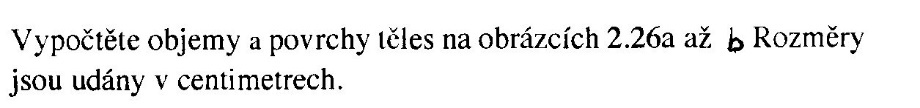


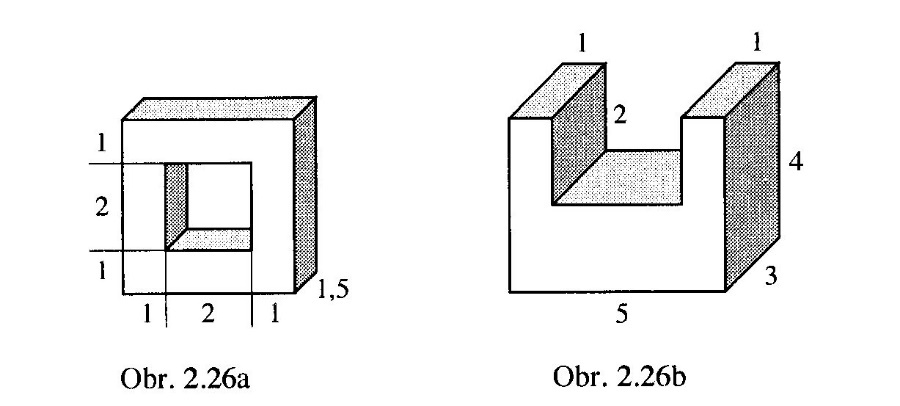
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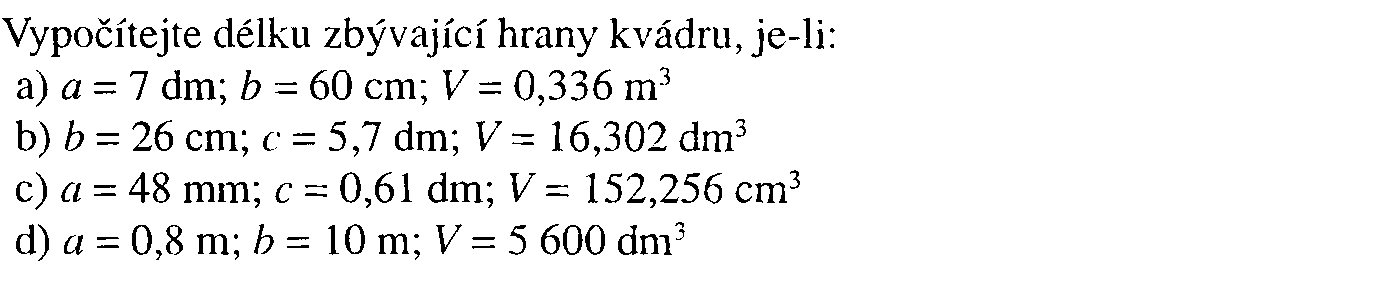


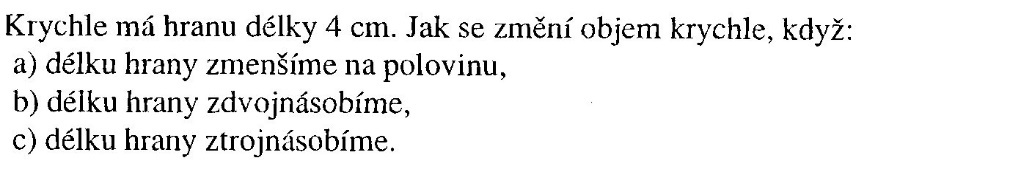
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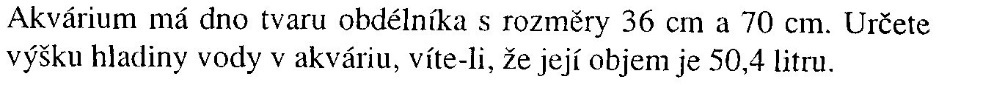


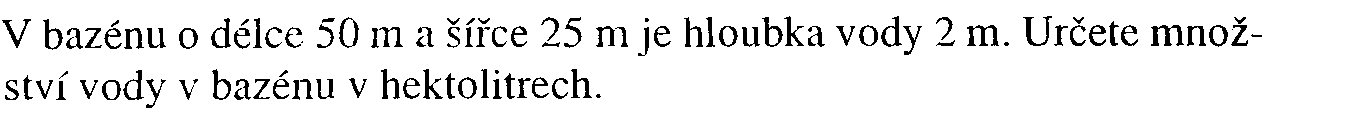
**38.)**

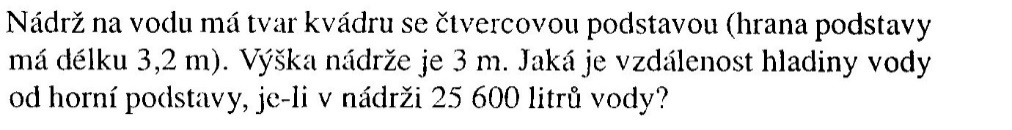


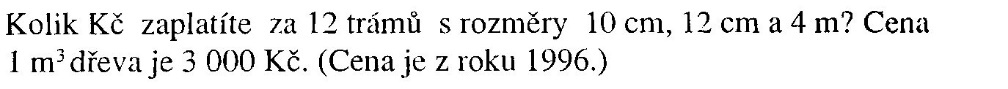
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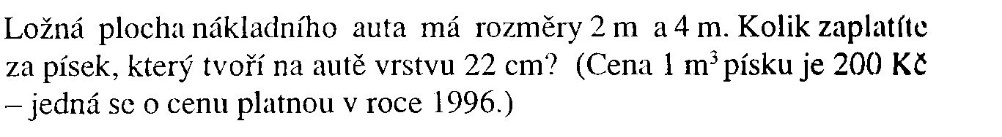
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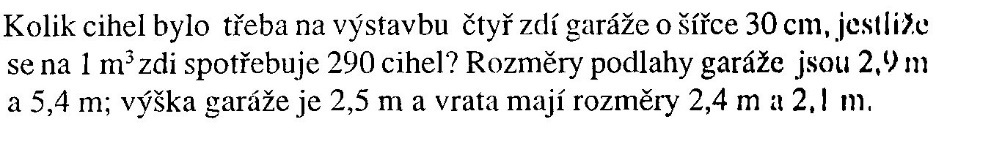
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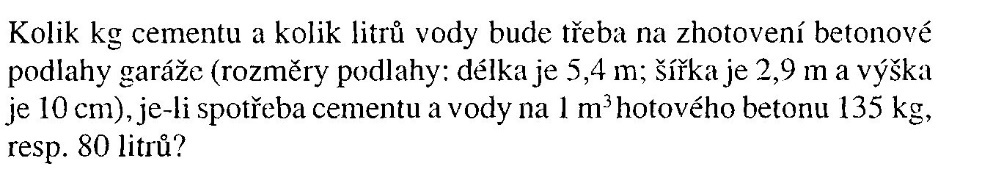
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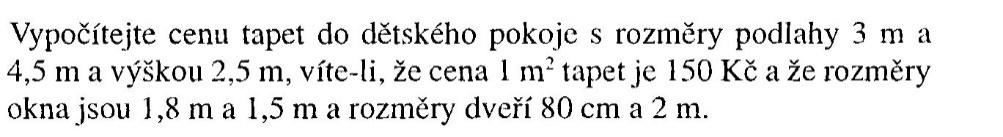
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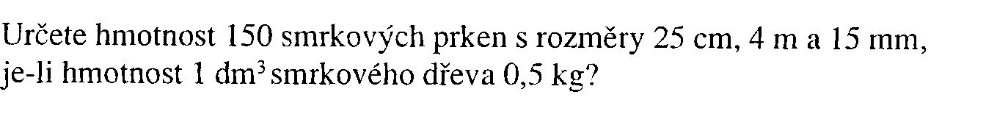
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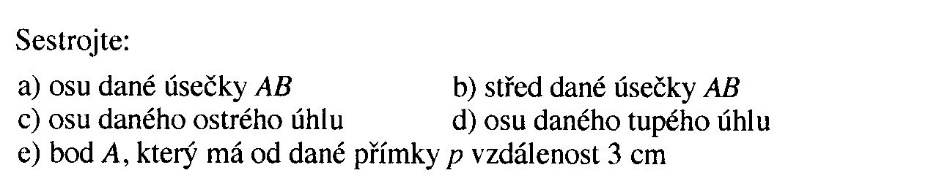
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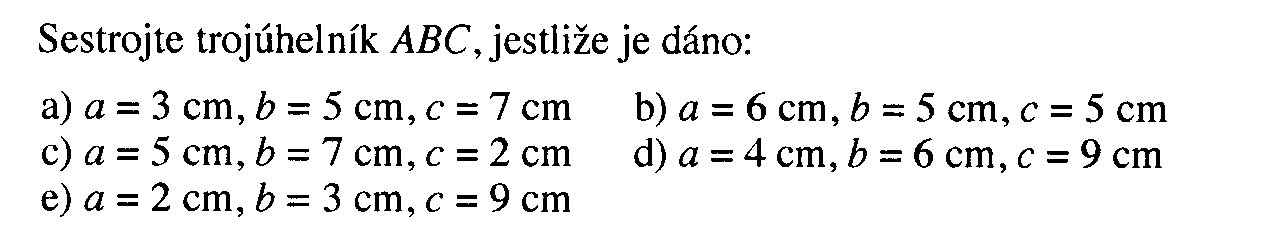
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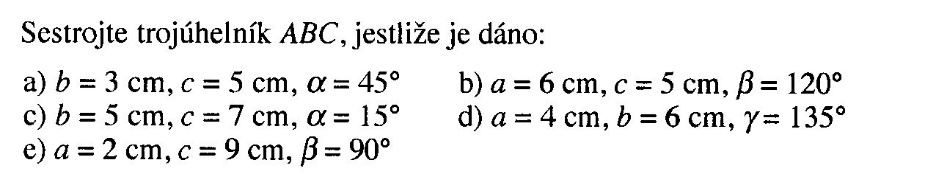
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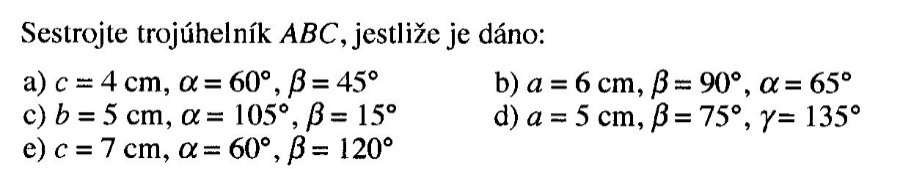
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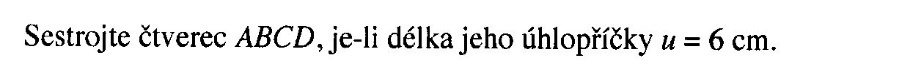
**49.)**

**50.)**

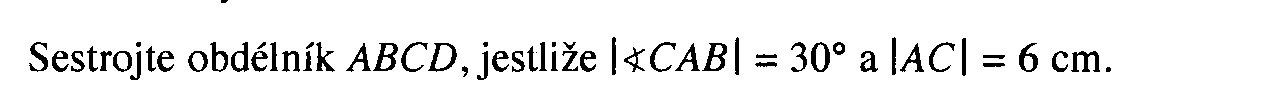
**51.)**

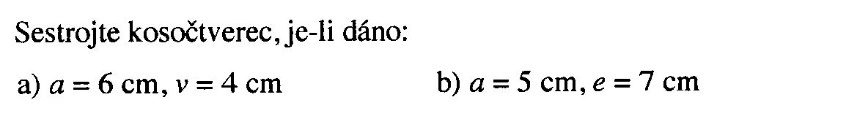
**52.)**

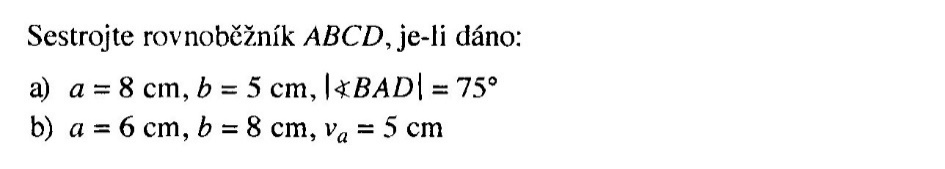
**53.)**

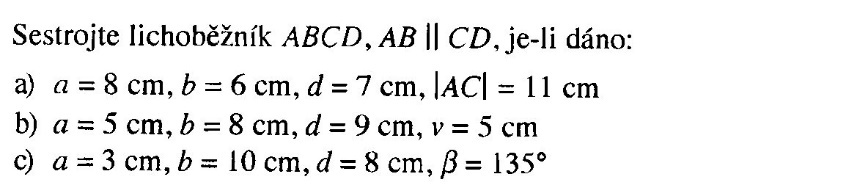


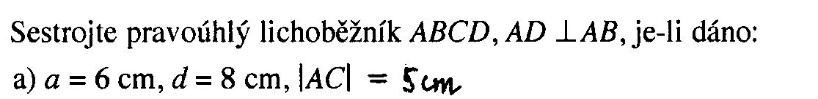
**54.)**

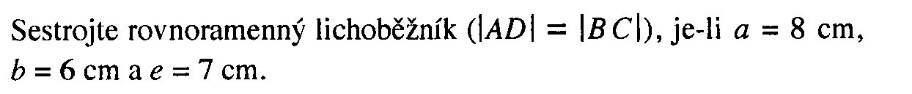
**55.)**

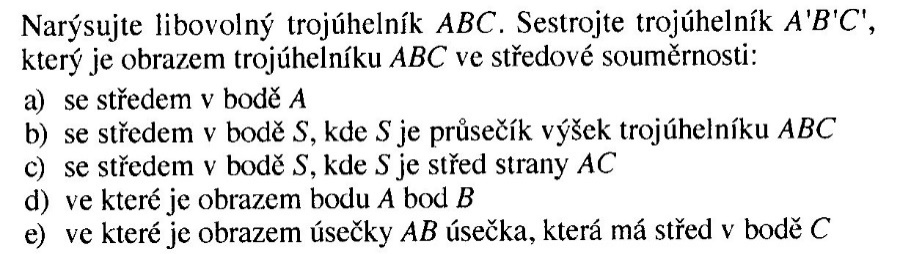
**56.)**

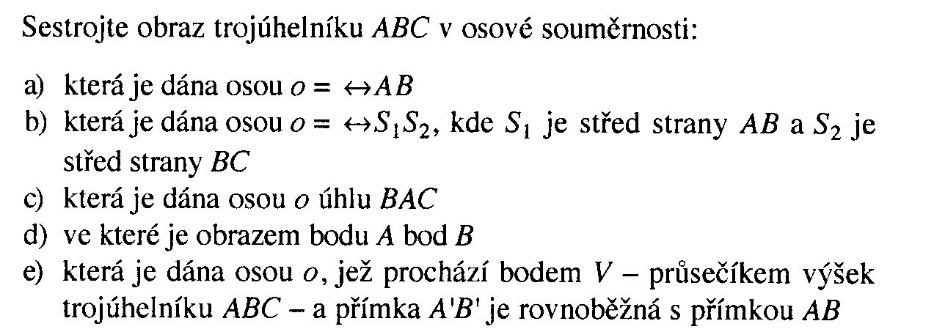
**57.)**

**58-)**

**59.)**

**60.)**

**61.)**

**62.)**

Výsledky:

1.)a)γ=100°;b)γ=253°;c)γ=307°;d)γ=98°;e)γ=279°

2.)velikost úhlu NMP 48°48´; velikost úhlu PON 48°48´;  
velikost úhlu MPO 131°12´

3.)a)α=42°11´;β´=125°59´;γ=83°48´;γ´=96°12´

b)α=70°55´;β=54°47´;γ=54°18´;γ´=125°42´

c)α=16°22´;α´=163°38´;β´=64°;γ=47°38´; γ´=132°22´

d)α=25°31´;α´=154°29´;β=22°47´;β´=157°13´;γ=131°42´

4.)velikost úhlu QPS 66°48´; velikost úhlu SRQ 66°48´;   
velikost úhlu PSR 113°12´

5.)α=90°; γ=129°35´

6.)α=β=45°;γ=90°

7.)a)41°43´ b)33°41´ c)74°49´

8.)a)α=36°;β=54°;γ=90°

b)α=60°;β=90°;γ=30°

c)α=90°;β=22°30´;γ=67°°30´

d)α=110°;β=50°;γ=20°

9.)a)α=108°;α´=72°

b)α=120°;α´=60°

c)α=135°;α´=45°

d)α=150°;α´=30°

10.)a)A:70° B:106°25´ C:77°45´ D:130°20´ E:64°30´

b)A:132° B:133°44´ C:147°49´ D:92°23´ E:21°49´ F:51°46´ G:67°35´

11.)a)3,3dm b)0,615m c)0,0092km d)315 800m

e)20mm f)20m g)0,6cm h)19cm

12.a)1590mm2 b)83dm2 c)71,76cm2  d)0,6m2 e)0,12m2  
 f)500mm2 g)4 020 000mm2 h)0,009dm2 i)250mm2 j)36m2

k)3,8ha l)450m2

13.)a)8,5dl b)23dm3 c)0,47cm3 d)600ml e)38cl f)2,51m3  
 g)590cm3 h)0,6l i)0,08m3 j)4 040mm3

14.)v cm2: a)49 b)10 c)36 d)50 e)72

15.)v cm2:a)40 b)20 c)32 d)24 e)147

16.)v cm2:a)6 b)8 c)8 d)33 e)11,25

17.)v cm2:a)12 b)15 c)10 d)24 e)10

18.)v cm2:a)7,5; b)8 c)25 d)21 e)6

19.)v cm2:a)48 b)16 c)25 d)8

20.)a)obvod dvakrát větší; obsah čtyřikrát větší  
 b)obvod dvakrát menší; obsah čtyřikrát menší

c)obvod pětkrát větší; obsah 25 krát větší

21.)1,640 1ha

22.)71,55m2

23.)3,1m

24.)1,5km

25.)37,21m2 24,4m

26.)1 106

27.)čtverec 18m obdélník 24x12m větší výměra čtverec

28.)4,65m2

29.)6 600kg

30.)17,5kg

31.)a)ne b)ne c)ano d)ano e)ne

32.)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | celkem | 1 stěna natřená | 2 stěny natřené | 3 stěny natřené | 4 stěny natřené | 5 stěn natřených |
| a) | 13 | 1 | 0 | 8 | 3 | 1 |
| b) | 19 | 2 | 5 | 7 | 5 | 0 |
| c) | 18 | 1 | 6 | 4 | 6 | 1 |
| d) | 18 | 2 | 5 | 7 | 1 | 3 |
| e) | 15 | 1 | 5 | 3 | 4 | 2 |

33.)a)S=16cm2; V=4cm3 b) S=38cm2; V=12cm3   
 c) S=32cm2; V=12cm3 d) S=48cm2; V=20cm3  
 e) S=64,5cm2; V=33;75cm3

34.)a)S=17,34cm2; V=4,913cm3 b) S=30,38cm2; V=10,29cm3   
 c) S=31,38cm2; V=8,694cm3

35.) S=58cm2; V=20cm3

36.) S=90,43cm2; V=45cm3

37.) a)S=86cm2; V=42cm3 b) S=124cm2; V=48cm3   
 c) S=86cm2; V=42cm3 d) S=108cm2; V=36cm3  
 e) S=82cm2; V=30cm3

38.)a) S=60cm2; V=18cm3 b) S=94cm2; V=42cm3

39.)a)8dm b)1,1dm c)52mm d)0,7m

40.)a)objem 8x menší b)objem 8x větší c)objem 27x větší

41.)20cm

42.)25 000hl

43.)0,5m

44.)1728Kč

45.)352Kč

46.)3433Kč

47.)212kg cementu 126l vody

48.)4980Kč

49.)1125kg