



ƆƆƆ, Ɔ^{1/4}Ɔ, Ñ†ƆμÑ•Ɔ°Ɔ, Ɔμ ƆƆƆμÑ...Ɔ^{1/2}Ɔ^{3/4}Ɔ»Ɔ^{3/4}Ɔ³Ɔ, Ɔ,

ƆƆƆ, Ɔ^{1/4}Ɔ, Ñ†ƆμÑ•Ɔ°Ɔ, Ɔμ ƆƆƆμÑ...Ɔ^{1/2}Ɔ^{3/4}Ɔ»Ɔ^{3/4}Ɔ³Ɔ, Ɔ,

ı»žı»ž

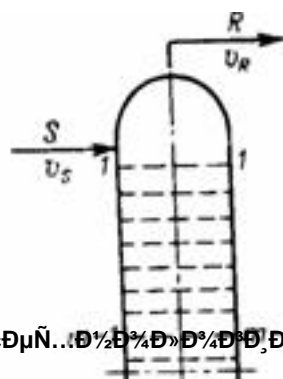
Ɔ—Ɔ°Ɔ´Ɔ°Ñ†Ɔ° 6-4

**(ƆžƆ±Ɔ^{3/4}Ñ€ÑƆ´Ɔ^{3/4}Ɔ²Ɔ°Ɔ^{1/2}Ɔ, Ɔμ Ɔ´Ɔ»Ñ•
Ɔ^{1/2}ƆμÑ,,Ñ,)**



ρÑƆ± 120

Ɔ—Ɔ°Ɔ´Ɔ°Ñ†Ɔ° 6.4 Ɔ Ɔ°Ñ•Ñ•Ñ†Ɔ, Ñ,Ɔ°Ñ,ÑƆ Ñ•Ɔ°Ñ•Ñ,Ñ€Ɔ°Ɔ°Ñ†Ɔ, Ɔ^{3/4}Ɔ^{1/2}Ɔ^{1/2}ÑƆÑž Ɔ°Ɔ^{3/4}Ɔ»Ɔ^{3/4}Ɔ^{1/2}Ɔ^{1/2}ÑƆ Ɔ´Ɔ»Ñ•
Ñ€Ɔ°Ɔ-Ɔ´ƆμƆ»ƆμƆ^{1/2}Ɔ, Ñ• Ñ•Ɔ^{1/4}ƆμÑ•Ɔ, Ɔ°Ñ€Ɔ^{3/4}Ɔ^{1/4}Ɔ°Ñ, Ɔ, Ñ†ƆμÑ•Ɔ°Ɔ^{3/4}Ɔ^{3/4} ÑƆƆƆ»ƆμƆ²Ɔ^{3/4}Ɔ´Ɔ^{3/4}Ñ€Ɔ^{3/4}Ɔ´Ɔ°
Ɔ^{3/4}-Ɔ°Ñ•Ɔ^{1/2}Ɔ»Ɔ^{3/4}Ɔ»Ɔ° Ɔ, ƆžƆ°Ñ€Ɔ°Ñ, Ɔ, Ɔ^{1/2}Ɔ^{3/4}Ɔ²Ɔ^{3/4}Ɔ^{3/4} ÑƆƆƆ»ƆμƆ²Ɔ^{3/4}Ɔ´Ɔ^{3/4}Ñ€Ɔ^{3/4}Ɔ´Ɔ° Ɔ^{1/2}-Ɔ^{3/4}Ɔ°Ñ, Ɔ°Ɔ^{1/2}Ɔ°,
Ɔ, Ñ•ƆžƆ^{3/4}Ɔ»ÑƆƆ•ÑƆÑ• Ɔ² Ɔ°Ɔ°Ñ†ƆμÑ•Ñ, Ɔ²μ Ñ€Ɔ°Ñ•Ñ, Ɔ²Ɔ^{3/4}Ñ€Ɔ, Ñ, ƆμƆ»Ñ•
Ɔ´Ɔ, Ɔ^{1/4}ƆμÑ, Ɔ, Ɔ»Ñ•ÑƆƆ»ÑƆƆ,, Ɔ^{3/4}Ɔ°Ñ•Ɔ, Ɔ´ (Ɔ°ƆœƆž), ƆžÑ€Ɔ, Ñ•Ɔ»ƆμƆ´ÑƆžÑ%Ɔ, Ñ...
Ɔ, Ñ•Ñ...Ɔ^{3/4}Ɔ´Ɔ^{1/2}Ñ•Ñ... Ɔ´Ɔ°Ɔ^{1/2}Ɔ^{1/2}Ñ•Ñ...: ƆžÑ€Ɔ^{3/4}Ɔ, Ɔ-Ɔ²Ɔ^{3/4}Ɔ´Ɔ, Ñ, ƆμƆ»ÑƆƆƆ^{1/2}Ɔ^{3/4}Ñ•Ñ, ÑƆ Ɔ°Ɔ^{3/4}Ɔ»Ɔ^{3/4}Ɔ^{1/2}Ɔ^{1/2}Ñ•
ƆžƆ^{3/4} Ñ•Ñ•Ñ€ƆÑž G = 25000 Ɔ°Ɔ^{3/4}Ñ†; Ɔ°Ñ€Ɔ^{3/4}Ɔ²Ɔ°Ñ• Ñ€Ɔ°Ɔ²Ɔ^{1/2}Ɔ^{3/4}Ɔ²ƆμÑ•Ɔ, Ñ• (Ñ€Ɔ, Ñ•. 1.16) [24];
Ñ•Ɔ^{3/4}Ñ•Ñ, Ɔ°Ɔ² Ñ•Ñ•Ñ€ƆÑ• - Ɔ^{3/4}-Ɔ°Ñ•Ɔ, Ɔ»Ɔ^{3/4}Ɔ»Ɔ° vk = 30 Ɔ^{3/4}Ɔ±ÑšƆμƆ^{1/4}Ɔ^{1/2}%. Ɔ, Ɔ^{1/2}-Ɔ^{3/4}Ɔ°Ñ, Ɔ°Ɔ^{1/2}Ɔ° v0 = 70
Ɔ^{3/4}Ɔ±ÑšƆμƆ^{1/4}Ɔ^{1/2}%; Ñ•Ɔ^{3/4}Ɔ´ƆμÑ€Ɔ°Ɔ°Ɔ^{1/2}Ɔ, Ɔμ Ɔ^{3/4}-Ɔ°Ñ•Ɔ, Ɔ»Ɔ^{3/4}Ɔ»Ɔ° Ɔ² Ñ€Ɔ°Ñ, Ɔ, Ɔ^{1/2}Ɔ°Ñ, Ɔμ vkk = 5
Ɔ^{3/4}Ɔ±ÑšƆμƆ^{1/4}Ɔ^{1/2}%; Ɔ^{3/4}Ñ, Ɔ^{1/2}Ɔ^{3/4}Ñ•Ñ, Ñ, ƆμƆ»ÑƆƆ^{1/2}Ɔ°Ñ• ƆžƆ»Ɔ^{3/4}Ñ, Ɔ^{1/2}Ɔ^{3/4}Ñ•Ñ, ÑƆ Ɔ^{3/4}-Ɔ°Ñ•Ɔ, Ɔ»Ɔ^{3/4}Ɔ»Ɔ° Ñ€277
= 0,8668 Ɔ° Ɔ^{1/2}-Ɔ^{3/4}Ɔ°Ñ, Ɔ°Ɔ^{1/2}Ɔ° Ñ€277 = 0,6849; Ñ, ƆμƆ^{1/4}ƆžƆμÑ€Ɔ°Ñ, ÑƆÑ€Ɔ° ƆžÑ€Ɔ^{3/4}Ñ†ƆμÑ•Ñ•Ɔ° ƆƆ = 313 Ɔš.



Д-Д°Н°Н,Н°ЕД°Д°Н†Д,Д¾Д½Д½Д°Н° Д°Д¾Д»Д¾Д½Д½Д° Д¿Н°ЕДµД´Д½Д°Д·Д½Д°Н†ДµД½Д° Д´Д»Н°
Н°Д°Н°Н,Н°ЕД°Д°Н†Д,Д¾ Д°Н°ЕД¾Д¼Д°Н,Д,Н†ДµН°Д°Д,Н... НfД³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´Д¾Д² Д¾· Н°Д¼ДµН°Д,
Н° Д½ДµД°Н°ЕД¾Д¼Д°Н,Д,Н†ДµН°Д°Д,Д¼Д, НfД³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´Д¾Д² Д²Н...Д¾Д´Н°Н°Д,Д¼Д, Д²
Н°Д¾Н°Н,Д°Д² Д°Д°Н,Д°Д»Д¾·Д°Н,Д¾Д² Н°ЕД,Н,Д¾Н°ЕД¼Д,Д½Д³Д°.

Д£Д³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´Д¾Д²Дµ Д¿Д,Н,Д°Д½Д,Дµ Д¿ Д² Н°Д°Н°Н,Н°ЕД°Д°Н,Д¾Н°Е Д¿Д¾Н°Н,НfД¿Д°ДµН,
Д² Д½Д,Д¶Д½Н¿Н¿ Н†Д°Н°Н,Н°Е, Д° Н°ЕД°Н°Н,Д²Д¾Н°ЕД,Н,ДµД»Н°Е 5 Д¿Д¾Д´Д°ДµН,Н°Н° Д²
Д²ДµН°Е...Д½Н¿Н¿ Н†Д°Н°Н,Н°Е Д°Д¿Д¿Д°Н°ЕД°Н,Д° (Н°ЕД,Н°. 1.17). ДҮН°ЕД¾Д´НfД°Н,Д°Д¼Д,
Д°Д¾Д»Д¾Д½Д½Н° Н°Д²Д»Н°Н¿Н,Н°Н° НfН...Д¾Д´Н°Н°Д°Н° Н°Д²ДµН°Е...Нf Н°ЕД°Н,Д,Д½Д°Н,Д½Д°Н°
Н,Д°Д·Д° Д, НfН...Д¾Д´Н°Н°Д°Н° Н°Д½Д,Д·Нf Н°Д°Н°Н,Н°ЕД°Д°Н,Д½Д°Н° Н,Д°Д·Д° Д°· Д°Д° Н°Н...ДµД¼Дµ
Н°Д°Н°Н,Н°ЕД°Д°Н†Д,Д¾Д½Д½Д¾Д¹ Д°Д¾Д»Д¾Д½Д½Н° Н°Н°Д°Д¾Д¼ Н° Д¼Д°Н°Н°Д¾Д²Н°Д¼
Д°Д¾Д»Д¾Н†ДµН°Н,Д²Д¾Д¼ Д°Д°Д¶Д´Д¾Д³Д¾ Д¿Д¾Н,Д¾Д°Д° НfД°Д°Д·Д°Д½Д¾ Н,Д°Д°Д¶Дµ ДµД³Д¾
Д¾Д±Н°ШДµД¼Д½Д¾Дµ Д°Д¾Д»Д¾Н†ДµН°Н,Д²Д¾Д¼ V.

Д"Д»Н° Н°Д¾Д·Д·Д°Д½Д,Н° Д´Д¾Д¿Д¾Д»Д¾Д,Н,ДµД»Н°ЕД½Д¾Д¹ Д´Д²Д,Д¶НfН°ДµД¹ Н°Д,Д»Н°
Н°Д°Н°Н,Н°ЕД°Д°Н†Д,Д¾ Д² Д°Д¾Д»Д¾Д½Д½Дµ Д¿Д¾Д´Д°ДµН°ЕД¶Д,Д²Д°Н¿Н, Д¾Д¿Н°ЕДµД»ДµД»ДµД½Д½Н°Д¹
Н,ДµД¼Д¿ДµН°ЕД°Н,НfН°ЕД½Н°Д¹ Д³Н°ЕД°Д·ДµД½Н, [25, Н°. 230]. ДҮД¾Н°Н,Д¾Д¼Нf Д½Д° Д²ДµН°Е...Нf
Д°Д¾Д»Д¾Д½Д½Н° Н,ДµД¼Д¿ДµН°ЕД°Н,НfН°Е° ДѳД° Д²Н°Н°Дµ Н,ДµД¼Д¿ДµН°ЕД°Н,НfН°ЕН° ДѳД, Д²
Д½Д,Д·Нf Д°Д¿Д¿Д°Н°ЕД°Н,Д° Д"Д°Д²Д»ДµД½Д,Дµ Д² Д°Д¾Д»Д¾Д½Д½Дµ Д¿Н°ЕД°Д°Н,Д,Н†ДµН°Д°Д, Д½Дµ
Д¾Д°Д°Д·Н°Д²Д°ДµН, Д²Д»Д¾Н°Д½Д,Н° Д½Д° Д¿Н°ЕД¾Н†ДµН°Н°.

Д"Д»Н° Н°Д°Н°Н,Н°ЕД°Д°Н†Д,Д¾Д½Д½Д¾Д¹ Д°Д¾Д»Д¾Д½Д½Н° Д´Д¾Д»Д¶Д½Н° Д±Н°Н,Н°Е
Д,Д·Д²ДµН°Н,Д½Н° НfН°Д»Д¾Д²Д,Н° Н°ЕД°Д²Д½Д¾Д²ДµН°Д,Н° Н°Д,Н°Н,ДµД¼Н° Н°ЕД°Н°Н,Д²Д¾Н°ЕД,Н,ДµД»Н°Е
- Д°Н°ЕД¾Д¼Д°Н,Д,Н†ДµН°Д°Д,Д¹ НfД³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´ - Д½ДµД°Н°ЕД¾Д¼Д°Н,Д,Н†ДµН°Д°Д,Д¹
НfД³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´.

ДҮН°ЕД, Д´Д°Д½Д½Д¾Д¹ Н,ДµД¼Д¿ДµН°ЕД°Н,НfН°ЕДµ, Д¾Н,Д²ДµН†Д°Н¿Н°ДµД¹ НfН°Д»Д¾Д²Д,Н°Д¼
Н°ЕД°Д²Д½Д¾Д²ДµН°Д,Н° Н°Д,Н°Н,ДµД¼Н°, Д¿Н°ЕД¾Н,Д,Д²Д¾Н,Д¾Н†Д½Д°Н° Н°Д°Н°Н,Н°ЕД°Д°Н†Д,Н°
Д¾Д´Д½Д,Д¼ Н°ЕД°Н°Н,Д²Д¾Н°ЕД,Н,ДµД»ДµД¼ Н...Д°Н°ЕД°Д°Н,ДµН°ЕД,Д·НfДµН,Н°Н°
Н°Д»ДµД´НfН¿Н°Д,Д¼Д, Д¿Д°Н°ЕД°Д¼ДµН,Н°ЕД°Д¼Д, [25, Н°. 112]:

Д°)А Н†Д,Н°Д»Д¾Д¼ Н,ДµД¾Н°ЕДµН,Д,Н†ДµН°Д°Д,Н... Н°Н,НfД¿ДµД½ДµД¹ Д°Д¾Д½Н,Д°Д°Н,Д°;
Д±)А Д¾Н,Д½Д¾Н°Д,Н,ДµД»Н°ЕД½Н°Д¼ Н°ЕД°Н°Н...Д¾Д´Д¾Д¼ Н°ЕД°Н°Н,Д²Д¾Н°ЕД,Н,ДµД»Н°;
Д¿)Н°Д¾Н°Н,Д°Д²Д¾Д¼ Н,Д°Д· Н°ЕД°Н,Д,Д½Д°Н,Д° Д, Н°Д°Н°Н,Н°ЕД°Д°Н,Д° Д°.

Д·Н,Д, Д¿ДµН°ЕДµД¼ДµД½Д½Н°Дµ Д½ДµД»Н°ЕД·Н° Д²Н°Д±Д,Н°ЕД°Н,Н°Е Д¿Н°ЕД¾Д,Д·Д²Д¾Д»Н°ЕД½Д¾
Д,Д·Д·Д° Н°НfН°ДµН°Н,Д²Д¾Д²Д°Д½Д,Н° Д¼ДµД¶Д´Нf Д½Д,Д¼Д, Д¾Д¿Н°ЕДµД»ДµД»ДµД½Д½Д¾Д¹
Д·Д°Д²Д,Н°Д,Д¼Д¾Н°Н,Д, Д°ЕД¾Д¶Д½Д¾ Д²Н°Д±Н°ЕД°Н,Н°Е Д»Н¿Д±Н°Дµ Д´Д²Д° Д,Д·
Д¿Д°Н°ЕД°Д¼ДµН,Н°ЕД¾Д², Н,Д¾Д³Д´Д° Д´Д²Д° Д·Н°НfД³Д,Н... Д±НfД´НfН, Д¾Д¿Н°ЕДµД»ДµД»ДµД½Н°
Н°ЕД°Н°Н†ДµН,Д¾Д¼. Д§Д°Н°Н,Д¾ Д² Д°Д°Н†ДµН°Н,Д²Дµ Д½ДµД·Д°Д²Д,Н°Д,Д¼Н°Н...
Д¿ДµН°ЕДµД¼ДµД½Д½Н°Н... Д½Д°Д·Д·Д°Д°Н†Д°Н¿Н,Н°Н° Н°Д¾Н°Н,Д°Д²Н° Н,Д°Д· Дš Д, Д°. Д§Д,Н°Д»Д¾Д
Н°Н,НfД¿ДµД½ДµД¹ Д°Д¾Д½Н,Д°Д°Н,Д°, Д½ДµД¾Д±Н...Д¾Д´Д,Д¼Д¾Дµ Д´Д»Н° Д¿Д¾Д»НfН†ДµД½Д,Н°
Д·Д°Д´Д°Д½Д¾Д³Д¾ Н°Д¾Н°Н,Д°Д²Д° Н°Н,Д,Н... Н,Д°Д·, Д, Н°Д¾Д¾Н,Д²ДµН,Н°Н,Д²НfН¿Н°Д,Д¹
Н°ЕД°Н°Н...Д¾Д´ Н°ЕД°Н°Н,Д²Д¾Н°ЕД,Н,ДµД»Н° Д¾Д¿Н°ЕДµД´ДµД»Н°Н¿Н,Н°Н° Д¿Д¾Н°Н,Н°ЕД¾ДµД½Д,ДµД¼
Д,Д»Д, Н°ЕД°Н°Н†ДµН,Д¾Д¼.

Д"Д»Н° Д¾Д¿Н°ЕДµД´ДµД»ДµД½Д,Н° Н†Д,Н°Д»Д° Н°Н,НfД¿ДµД½ДµД¹ Д°Д¾Д½Н,Д°Д°Н,Д°
Д¿Д¾Н°Н,Н°ЕД¾ДµД½Д,ДµД¼ Д¿Д¾ Д,Д·Д²ДµН°Н,Д½Н°Д¼ Д¼ДµН,Д¾Д´Д°Д¼ [26] Д¿Д¾Д¼Д,Д¼Д¾Д
Д°Н°ЕД,Д²Н°Н... Н°ЕД°Д²Д½Д¾Д²ДµН°Д,Н° Д´Д¾Д»Д¶Д½Н° Д±Н°Н,Н°Е Д·Д°Д´Д°Д½Н° Д»Д,Д½Д,Д,
Н°Д¾Д¿Н°Н°Д¶ДµД½Д,Н° (Д½Д¾Д´Н°). Д·Н°Д»Д, Д¿Д¾ НfН°Д»Д¾Д²Д,Н°Д¼ Н°ЕД°Д²Д½Д¾Д²ДµН°Д,Н°
Н°Д,Н°Н,ДµД¼ Н°ЕД°Н°Н,Д²Д¾Н°ЕД,Н,ДµД»Н°Е - Д°Н°ЕД¾Д¼Д°Н,Д,Н†ДµН°Д°Д,Д¹ НfД³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´ -
Д½ДµД°Н°ЕД¾Д¼Д°Н,Д,Н†ДµН°Д°Д,Д¹ НfД³Д»ДµД²Д¾Д´Д¾Н°ЕД¾Д´ Д² Д»Д,Н,ДµН°ЕД°Н,НfН°ЕДµ [24, 27-33]
Д,Д¼ДµН¿Н,Н°Н° Д² Д½Д°Н°Н,Д¾Н°Н°ДµДµ Д²Н°ЕДµД¼Н° Д¾Д±Н°Д,Н°ЕД½Н°Дµ Н°Д²ДµД´ДµД½Д,Н° Н,Д¾Д
Д´Д»Н° Д»Д,Д½Д,Д¹ Н°Д¾Д¿Н°Н°Д¶ДµД½Д,Н° Д¾Д½Д, Д²ДµН°Н°ЕД¼Д° Д¾Д¾Н°ЕД°Д½Д,Н†ДµД½Н° (27, 31,
34). Д Д°Н°Н†ДµН, Н†Д,Н°Д»Д° Н°Н,НfД¿ДµД½ДµД¹ Д°Д¾Д½Н,Д°Д°Н,Д° Д²
Н°Д°Н°Н,Н°ЕД°Д°Н†Д,Д¾Д½Д½Д¾Н°... Д°Д¾Д»Д¾Д½Д½Д°Н... Д¼ДµН,Д¾Д´Д°Д¼Д, Д¿Д¾Н°Н,Н°ЕД¾ДµД½Д,Н°
Д²Н°Д·Н°Д²Д°ДµН, Д² Н°Н,Д¾Д¹ Н°Д²Н°Д·Д, Д¾Д¿Н°ЕДµД»ДµД»ДµД½ДµД½НfН¿ Н,Н°НfД´Д½Д¾Н°Н,Н°Е Д,
Д¿Д¾Н°Н,Д¾Д¼Нf Н†Д°Н°Н,Д¾ ДµД³Д¾ Д¾Н°НfН°ДµН°Н,Д²Д»Н°Н¿Н, Д¿Д¾ Н°Д¼Д¿Д,Н°ЕД,Н†ДµН°Д°Д,Д¼
Н,Д¾Н°ЕД¼НfД»Д°Д¼ [25].

