ﻣﺘﻮﺳﻄﺔ اﻟﺴﻨﺔ اﻟﺪراﺳﻴﺔ : 2023 − 2024

# ﻓﺮض اﻟﻔﺼﻞ اﻷول ʏe ﻣﺎدة اﻟﺮçﺎﺿﻴﺎت

### اﻟﻘﺴﻢ: 04 ﻣﺘﻮﺳﻂ اﳌﺪة .:ﺳﺎﻋﺔ

 **التمرين الأول:**

&ﻞ اﻟﻌﺪدان 105 و 130 أوﻟﻴﺎن ﻓﻴﻤﺎ ﺑﻴ,¿ﻤﺎ؟ ﺑﺮر ﺟﻮاﺑﻚ .

أﺣﺴﺐ اﻟﻘﺎﺳﻢ اﳌﺸ,ũك اﻷﻛ؄, ﻟﻠﻌﺪﻳﻦ 105 و .130

## اﻛﺘﺐ 105 ﻋʄl ﺷSﻞ ﻛﺴﺮ ﻏ؈, ﻗﺎﺑﻞ ﻟﻼﺧũقال .

130

⃝**I**

⃝**II**

⃝**III**

168

5 ( 168

#### التمرين الثاني:

(,*C B* *A*, أﻋﺪاد ﺣﻘﻴﻘﻴﺔ ﺣﻴﺚ : )

3 8 × 105 × 14 × 10−6

*A* = 273 ; *B* = 26 − 4 ×

273 + 2

; *C* =

7 × 103

## أﻛﺘﺐ *A* ﻋʄl ﺷSﻞ ﻛﺴﺮ ﻏ؈, ﻗﺎﺑﻞ ﻟﻼﺧũقال .

أﺣﺴﺐ اﻟﻌﺪد *B* و أﻋﻂ اﻟﻨﺎﺗﺞ ﻋʄl ﺷSﻞ ﻛﺴﺮ ﻏ؈, ﻗﺎﺑﻞ ﻟﻼﺧũقال.

## أﻋﻂ اﻟﻜﺘﺎﺑﺔ اﻟﻌﻠﻤﻴﺔ ﻟﻠﻌﺪد.*C*

⃝**I**

⃝**II**

⃝**III**

*A* 9 3 3 ;

¸ ¸ ¸

#### التمرين الثالث:

( ﻟﺘﻜﻦ اﻷﻋﺪاد *D* ;;*C B* *A*; ﺣﻴﺚ :

= 2 − 2 ÷ 7

*B* = 3 28 + 175 − 2 112

14

*D*

= ¸7 ;

(

*C* = 7 − 3

¸

)( )

2 7 + 1

¸

## ⃝**I** ﺑ؈ن أن *A* ﻋﺪد ﻃﺒﻴʏ2 .

أﻛﺘﺐ *B* ﻋʄl اﻟﺸSﻞ *a*¸7 ﺣﻴﺚ *a* ﻋﺪد ﻃﺒﻴʏ2 .

أﻛﺘﺐ *C* ﻋʄl اﻟﺸSﻞ *b*¸7 + *a* ﺣﻴﺚ *a* و *b* ﻋﺪدان oݰﻴﺤﺎن .

## أﻛﺘﺐ *D* ﺑﻤﻘﺎم ﻧﺎﻃﻖ .

ﺑ؈ن أن اﻟﻌﺪد 4 ﻗﺎﺳﻢ ﻟﻠﻤﺠﻤﻮع : *D* + *C* + *B* +.*A*

⃝**II**

⃝**III**

⃝**IV**

⃝**V**



ﻟﻜﻦ إ&ﻤﺎﻟـ,ـﺎ أﻟﻢ çﺴﺘﻤﺮ ﻣﺪى اxݰﻴﺎة

أﻟﻢ اﻟﺪراﺳﺔ xݰﻈﺔ و ﺗـﻨـﺘـ,ـﻲ

## اﻷﺳﺘﺎذ : ﻣﺪاﺟﻠﻴﺔ ﻧﻮراﻟﺪﻳﻦ ﺻﻔﺤﺔ 1 ﻣـﻦ 3 ﺑﺎﻟﺘﻮﻓﻴــﻖ

ﺣﻞ ﻓﺮض اﻟﻔﺼﻞ اﻷول ʏe ﻣﺎدة اﻟﺮçﺎﺿﻴﺎت

### اﻟﻘﺴﻢ: 04 ﻣﺘﻮﺳﻂ اﳌﺪة .......:

**التمرين الأول:**

### ⃝**I** اﻟﻌﺪدان 105 و 130 رﻗﻢ آﺣﺎد&ﻤﺎ &ﻤﺎ 0 و 5 و ﺑﺎﻟﺘﺎʏr ﻓ,ﻤﺎ ﻳﻘﺒﻼن اﻟﻘﺴﻤﺔ ﻋʄl 5 ﻓ,ﻤﺎ ﻟʋﺴﺎ أوﻟﻴﺎن ﻓﻴﻤﺎ ﺑﻴ,¿ﻤﺎ.

*PGCD*(130; 105) = 5 ﻣﻨﮫ و

### ﻛﺘﺎﺑﺔ 105 ﻋʄl ﺷSﻞ ﻛﺴﺮ ﻏ؈, ﻗﺎﺑﻞ ﻟﻼﺧũقال .

130

⃝**III**

### ﺣﺴﺎب اﻟﻘﺎﺳﻢ اﳌﺸ,ũك اﻷﻛ؄, ﻟﻠﻌﺪﻳﻦ 105 و .130

130 = 105 × 1 + 25

⃝**II**

105 105 ÷ 5 21

130 = 130 ÷ 5 = 26

105 = 25 × 4 + 5

25 = 5 × 5 + 0

#### التمرين الثاني:

63 = 42 × 1 + 21

42 = 21 × 2 + 0

*PGCD*(273; 168) = 21 ﻣﻨﮫ و

### ⃝**I** ﻛﺘﺎﺑﺔ *A* ﻋʄl ﺷSﻞ ﻛﺴﺮ ﻏ؈, ﻗﺎﺑﻞ ﻟﻼﺧũقال .

.*PGCD*(273; 168) ﺣﺴﺎب أوﻻ (

273 = 168 × 1 + 105

168 = 105 × 1 + 63

105 = 63 × 1 + 42

168 168 ÷ 21 8

273 = 273 ÷ 21 = 13

### ﺣﺴﺎب اﻟﻌﺪد *B* و إﻋﻄﺎء اﻟﻨﺎﺗﺞ ﻋʄl ﺷSﻞ ﻛﺴﺮ ﻏ؈, ﻗﺎﺑﻞ ﻟﻼﺧũقال.

⃝**II**

5 ( 16 + 39 )

5 ( 168 3 )

= 26 − 4 × 26

*B* = 26 − 4 ×

273 + 2

5 ( 4 × 55 )

5 ( 8 3 )

= 26 −

5

26

( 220 )

−215

= 26 − 4 ×

5

13 + 2

( 8 × 2

3 × 13 )

= 26 − 26

= 26

= 26 − 4 ×

13 ×

2 + 2

× 13



اﻷﺳﺘﺎذ : ﻣﺪاﺟﻠﻴﺔ ﻧﻮراﻟﺪﻳﻦ ﺻﻔﺤﺔ 2 ﻣـﻦ 3 ﺑﺎﻟﺘﻮﻓﻴــﻖ

## اﻟﻜﺘﺎﺑﺔ اﻟﻌﻠﻤﻴﺔ ﻟﻠﻌﺪد.*C*

8 × 105 × 14 × 10−6

*C*

3

=

7

8 × 14

× 10

105 × 10−6

*C* = 7 ×

103

*C* = 16 × 10−4

*C* = 1, 6 × 10−3

#### التمرين الثالث:

ﻛﺘﺎﺑﺔ *B* ﻋʄl اﻟﺸSﻞ *a*¸7 ﺣﻴﺚ *a* ﻋﺪد ﻃﺒﻴʏ2

⃝**II**

## ⃝**I** ﺗȎﻴ؈ن أن *A* ﻋﺪد ﻃﺒﻴʏ2 .

. 9 3 3

*A* = 2 − 2 ÷ 7

*B* = 3¸28 + ¸175 − 2¸112

*A* 9 3 7

*B* 3¸4

× +

× −

×

¸ ¸

= 2 − 2 × 3

=

*B* = 3

7

√

22 × 7 +

25 7 2

√

52 × 7 − 2

16 7

√

42 × 7

9 21

*A* = 2 − 6

27 21

*B* = 3 × 2¸7 + 5¸7 − 2 × 4¸7

*A*  −

6

=

6

*B* = (6 + 5 − 8) ¸7

*A* = 6 = 1

*B* = 3¸7

## ﺗȎﻴ؈ن أن اﻟﻌﺪد 4 ﻗﺎﺳﻢ ﻟﻠﻤﺠﻤﻮع :

.*A* + *B* + *C* + *D*

⃝**III**

⃝**I** ﻛﺘﺎﺑﺔ *C* ﻋʄl اﻟﺸSﻞ *b*¸7 + *a* ﺣﻴﺚ *a* و *b*

## ﻋﺪدان oݰﻴﺤﺎن .

*A* + *B* + *C* + *D* = 1 + 3¸7 + 11 − 5

¸7 + 2¸7

( )( )

*C* = 7 − 3 2 7 + 1

¸

¸

*A* + *B* + *C* + *D* = 12 − 2¸7 + 2¸7

*A* + *B* + *C* + *D* = 12

*A* + *B* + *C* + *D* = 4 × 3

*C* = ¸7 × 2¸7 + ¸7 × 1 − 3 × 2¸7 − 3 × 1

*C* = 14 + ¸7 − 6¸7 − 3

*C* = 11 − 5¸7

## و ﺑﺎﻟﺘﺎʏr اﻟﻌﺪد 4 ﻗﺎﺳﻢ ﻟﻠﻤﺠﻤﻮع :

ﻛﺘﺎﺑﺔ *D* ﺑﻤﻘﺎم ﻧﺎﻃﻖ .

⃝**II**

.*A* + *B* + *C* + *D*

*D* 14 14 × ¸7 14¸7

= ¸7 = ¸7 ¸7 = 7



×

= 2¸7

اﻷﺳﺘـﺎذ :ﻣﺪاﺟﻠﻴﺔ ﻧﻮراﻟﺪﻳﻦ ﺻﻔﺤﺔ 3 ﻣـﻦ 3 ﺑﺎﻟﺘﻮﻓﻴــﻖ

# اﻟﻤﻮﻗﻊ اﻷول ﻟﺘﺤﻀﻴﺮ اﻟﻔﺮوض واﻻﺧﺘبﺎرات ﻓﻲ اﻟﺠﺰاﺋﺮ

[https://www.dzexams.com](https://www.dzexams.com/)

|  |  |
| --- | --- |
| <https://www.dzexams.com/ar/0ap> | اﻟﻘﺴﻢ اﻟﺘﺤﻀﻴﺮي |
| <https://www.dzexams.com/ar/1ap> | اﻟﺴﻨﺔ اﻷوﻟﻰ اﺑﺘﺪاﺋﻲ |
| <https://www.dzexams.com/ar/2ap> | اﻟﺴﻨﺔ اﻟﺜﺎﻧ�ﺔ اﺑﺘﺪاﺋﻲ |
| <https://www.dzexams.com/ar/3ap> | اﻟﺴﻨﺔ اﻟﺜﺎﻟﺜﺔ اﺑﺘﺪاﺋﻲ |
| <https://www.dzexams.com/ar/4ap> | اﻟﺴﻨﺔ اﻟﺮابﻌﺔ اﺑﺘﺪاﺋﻲ |
| <https://www.dzexams.com/ar/5ap> | اﻟﺴﻨﺔ اﻟﺨﺎﻣﺴﺔ اﺑﺘﺪاﺋﻲ |
| https://[www.dzexams.com/ar/bep](http://www.dzexams.com/ar/bep) | ﺷﻬﺎدة اﻟﺘﻌﻠ�ﻢ اﻻﺑﺘﺪاﺋﻲ |
| <https://www.dzexams.com/ar/1am> | اﻟﺴﻨﺔ اﻷوﻟﻰ ﻣﺘﻮﺳﻂ |
| <https://www.dzexams.com/ar/2am> | اﻟﺴﻨﺔ اﻟﺜﺎﻧ�ﺔ ﻣﺘﻮﺳﻂ |
| <https://www.dzexams.com/ar/3am> | اﻟﺴﻨﺔ اﻟﺜﺎﻟﺜﺔ ﻣﺘﻮﺳﻂ |
| <https://www.dzexams.com/ar/4am> | اﻟﺴﻨﺔ اﻟﺮابﻌﺔ ﻣﺘﻮﺳﻂ |
| <https://www.dzexams.com/ar/bem> | ﺷﻬﺎدة اﻟﺘﻌﻠ�ﻢ اﻟﻤﺘﻮﺳﻂ |
| <https://www.dzexams.com/ar/1as> | اﻟﺴﻨﺔ اﻷوﻟﻰ ﺛﺎﻧﻮي |
| <https://www.dzexams.com/ar/2as> | اﻟﺴﻨﺔ اﻟﺜﺎﻧ�ﺔ ﺛﺎﻧﻮي |
| <https://www.dzexams.com/ar/3as> | اﻟﺴﻨﺔ اﻟﺜﺎﻟﺜﺔ ﺛﺎﻧﻮي |
| https://[www.dzexams.com/ar/bac](http://www.dzexams.com/ar/bac) | ﺷﻬﺎدة اﻟبكﺎﻟﻮرiﺎ |