The list of questions from GMAT Club forum

Question_list_2015_10_09

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by **sidchilling**

1 For all positive integers n, the nth term in sequence S_n is defined by Bunuel

http://gmatclub.com/forum/topic-205261.html

Tags: Difficulty: 600-700 Level | Sequences | Source: Manhattan GMAT

GMAT Problem Solving (PS)

For all positive integers n, the nth term in sequence [m:3rrjy65l]S_n[/m:3rrjy65l] is defined as follows:

[m:3rrjy65l]S_n = (n!)^{-1}[/m:3rrjy65l]

The sum of the first six terms of [m:3rrjy65l]S_n[/m:3rrjy65l] is

(A) between 0 and ½
(B) between ½ and 1
(C) between 1 and 1½
(D) between 1½ and 2
(E) greater than 2

[i:3rrjy65l]Kudos for a correct [u:3rrjy65l]solution[/u:3rrjy65l].[/i:3rrjy65l]

2 Two prime numbers are considered consecutive if no other prime lies be by Bunuel

http://gmatclub.com/forum/topic-205124.html

Tags: Difficulty: 700-Level | Number Properties | Source: Manhattan GMAT

GMAT Problem Solving (PS)

Two prime numbers are considered consecutive if no other prime lies between them on the number line. If [m:1vdhwsvy]p_1[/m:1vdhwsvy] and [m:1vdhwsvy]p_2[/m:1vdhwsvy] are consecutive primes, with [m:1vdhwsvy]|p_1 – p_2| > 2[/m:1vdhwsvy], what is the smallest possible absolute value of the coefficient of the x term in the distributed form of the expression [m:1vdhwsvy](x – p_1)(x – p_2)[/m:1vdhwsvy]?

(A) 5
(B) 8
(C) 12
(D) 18
(E) 24

[i:1vdhwsvy]Kudos for a correct [u:1vdhwsvy]solution[/u:1vdhwsvy].[/i:1vdhwsvy]

3 Vivian drives to her sister's house and back. She takes the exact same by Bunuel

http://gmatclub.com/forum/topic-205118.html

Tags: Difficulty: 600-700 Level | Distance/Rate Problems | Source: Princeton Review

GMAT Problem Solving (PS)

Vivian drives to her sister's house and back. She takes the exact same route both ways. On the trip out she drives an average speed of 50 miles per hour. On the trip back she drives an average speed of 70 miles per hour. What is her approximate average speed for the round trip in miles per hour?

A) 50
B) 58.3
C) 60
D) 61.7
E) 70

[i:jiy5ha7u]Kudos for a correct [u:jiy5ha7u]solution[/u:jiy5ha7u].[/i:jiy5ha7u]

4 If x^a = 2, x^b = 3 and x^c = 6 then x^(3a + b - 2c) = ? by skylimit

http://gmatclub.com/forum/topic-205287.html

Tags: Exponents/Powers | Source: Other - Please specify | Difficulty: 600-700 Level

GMAT Problem Solving (PS)

If [m:x0pliq5a]x^a = 2[/m:x0pliq5a], [m:x0pliq5a]x^b = 3[/m:x0pliq5a] and[m:x0pliq5a]x^c = 6[/m:x0pliq5a] then [m:x0pliq5a]x^{(3a+b-2c)} =[/m:x0pliq5a] ?

A) 1/9
B) 1/6
C) 1/2
D) 2/3
E) 3/4

It's meant to read x^(3a+b-2c) = ?
[spoiler=:x0pliq5a]Is this a valid question? I had no idea where to start?[/spoiler:x0pliq5a]

5 A contractor undertakes to do a job within 100 days and hires 10 peopl by Bunuel
http://gmatclub.com/forum/topic-205203.html
Tags: Difficulty: 600-700 Level | Work/Rate Problems | Source: Veritas Prep

GMAT Problem Solving (PS)

A contractor undertakes to do a job within 100 days and hires 10 people to do it. After 20 days, he realizes that one fourth of the work is done so he fires 2 people. In how many more days will the work get over?

(A) 60
(B) 70
(C) 75
(D) 80
(E) 100

[i:1mcavoaq]Kudos for a correct [u:1mcavoaq]solution[/u:1mcavoaq].[/i:1mcavoaq]

6 If c is 25% of a and 10% of b, what percent of a is b? by actleader
http://gmatclub.com/forum/topic-141623.html
Tags: Difficulty: Sub-600 Level | Percents and Interest Problems

GMAT Problem Solving (PS)

If c is 25% of a and 10% of b, what percent of a is b?

(A) 2.5%
(B) 15%
(C) 25%
(D) 35%
(E) 250%

7 Given two fair dice, what is the probability that the sum of their no. by rverma007
http://gmatclub.com/forum/topic-205280.html
Tags: Probability | Source: Kaplan | Difficulty: 700-Level

GMAT Problem Solving (PS)

Given two fair dice, what is the probability that the sum of their numbers is 4 if exactly one die shows a 3?

a) 2/11
b) 1/18
c) 3/11
d) 2/39
e) 1/5

source: kaplan

8 Square ABCD has arc AC centred at B and arc BD centred at C by PareshGmat
http://gmatclub.com/forum/topic-181253.html
Tags: Geometry | Source: Other - Please specify | Difficulty: 700-Level

GMAT Problem Solving (PS)

As shown in figure, Square ABCD has arc AC centred at B and arc BD centred at C. If AB = 4, area of shaded region is

[img:2lgpoyi9]http://gmatclub.com/forum/download/file.php?id=24149[/img:2lgpoyi9]

A: [m:2lgpoyi9][fraction:2lgpoyi9]16\pi/3[/fraction:2lgpoyi9] - 4\sqrt{3}[/m:2lgpoyi9]

B: [m:2lgpoyi9]4\sqrt{3} - [fraction:2lgpoyi9]4\pi/3[/fraction:2lgpoyi9][/m:2lgpoyi9]

C: [m:2lgpoyi9]4 + 4\sqrt{3} + [fraction:2lgpoyi9]4\pi/3[/fraction:2lgpoyi9][/m:2lgpoyi9]

D: [m:2lgpoyi9]16 + 2\sqrt{3} - [fraction:2lgpoyi9]8\pi/3[/fraction:2lgpoyi9][/m:2lgpoyi9]

E: [m:2lgpoyi9]16 - 4\sqrt{3} - [fraction:2lgpoyi9]8\pi/3[/fraction:2lgpoyi9][/m:2lgpoyi9]

[spoiler=:2lgpoyi9][attachment=0:2lgpoyi9] square.png [/attachment:2lgpoyi9][/spoiler:2lgpoyi9]

9 ## A company's four cars running 10 hrs a day consume 1200 lts of fuel in by Bunuel

http://gmatclub.com/forum/topic-205204.html

Tags: Difficulty: 600-700 Level | Word Problems | Work/Rate Problems | Source: Veritas Prep

GMAT Problem Solving (PS)

A company's four cars running 10 hrs a day consume 1200 lts of fuel in 10 days. In the next 6 days, the company will need to run 9 cars for 12 hrs each so it rents 5 more cars which consume 20% less fuel than the company's four cars. How many lts of fuel will be consumed in the next 6 days?

(A) 1200 lt
(B) 1555 lt
(C) 1664 lt
(D) 1728 lt
(E) 4800 lt

[i:2vovlcy5]Kudos for a correct [u:2vovlcy5]solution[/u:2vovlcy5].[/i:2vovlcy5]

10 ## A tank has two water pumps Alpha and Beta and one drain Gamma. Pump by Bunuel

http://gmatclub.com/forum/topic-205208.html

Tags: Difficulty: 600-700 Level | Work/Rate Problems | Source: Veritas Prep

GMAT Problem Solving (PS)

A tank has two water pumps Alpha and Beta and one drain Gamma. Pump Alpha alone can fill the whole tank in x hours, and pump Beta alone can fill the whole tank in y hours. The drain can empty the whole tank in z hours such that z>x. When the tank was empty, pumps Alpha and Beta started pumping water in the tank and the drain Gamma simultaneously was draining water from the tank. When finally the tank is full, which of the following represents the amount of water in terms of the fraction of the tank which pump Alpha pumped into the tank?

(A) yz/(x+y+z)
(B) yz/(yz + xz – xy)
(C) yz/(yz + xz + xy)
(D) xyz/(yz + xz – xy)
(E) (yz + xz – xy)/yz

[i:hn7t2k5v]Kudos for a correct [u:hn7t2k5v]solution[/u:hn7t2k5v].[/i:hn7t2k5v]

The list of ANSWERS:

#	Answer
4	D
6	E
7	A
8	E