



webwork (/webwork2/?user=PhonV500&effectiveUser=PhonV500&key=MrfsTbr8HXMmU87gRIVtbel1nRMhNwPA&theme=) /
 applied_discrete_structures (/webwork2/Applied_Discrete_Structures/?user=PhonV500&effectiveUser=PhonV500&key=MrfsTbr8HXMmU87gRIVtbel1nRMhNwPA&theme=)
 / ads_1 (/webwork2/Applied_Discrete_Structures/ADS_1/?user=PhonV500&effectiveUser=PhonV500&key=MrfsTbr8HXMmU87gRIVtbel1nRMhNwPA&theme=) / 8

ADS 1: Problem 8

Prev (/webwork2/Applied_Discrete_Structures/ADS_1/7/?

user=PhonV500&effectiveUser=PhonV500&key=MrfsTbr8HXMmU87gRIVtbel1nRMhNwPA&theme=&displayMode=MathJax&showOldAnswers=1)

Up (/webwork2/Applied_Discrete_Structures/ADS_1/?

user=PhonV500&effectiveUser=PhonV500&key=MrfsTbr8HXMmU87gRIVtbel1nRMhNwPA&theme=&displayMode=MathJax&showOldAnswers=1)

Next

Entered	Answer Preview	Result
2401	2401	correct
840	840	correct
343	343	correct
343	343	correct
686	686	correct

All of the answers above are correct.

(2 pts) 4 -letter words" are formed using the letters A, B, C, D, E, F, G. How many such words are possible for each of the following conditions?

(a) No condition is imposed.

Your answer is : = 7^4

(b) No letter can be repeated in a word.

Your answer is : = $7 \cdot 6 \cdot 5 \cdot 4 = P(7, 4) = 7! / (7-4)! = 7!/3!$

(c) Each word must begin with the letter A.

Your answer is : = $1 \cdot 7^3$

(d) The letter C must be at the end.

Your answer is : = $1 \cdot 7^3$

(e) The second letter must be a vowel.

Your answer is : = $1 \cdot 7^3 + 1 \cdot 7^3$

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

Your score was recorded.

You have attempted this problem 6 times.

You received a score of 100% for this attempt.

Your overall recorded score is 100%.

You have unlimited attempts remaining.

Email instructor

