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G+

Theory of groups for physics applications - - Unit...

Week 4	$\{e, \sigma_1, \sigma_2, \sigma_3\}$	
Week 5	$\{e,a,a^2,a^3,a^4,\sigma_1,\sigma_2,\sigma_3,\sigma_4,\sigma_5\}$	
Week 6	No, the answer is incorrect.	
Week 7	Accepted Answers:	
Week 8	$\{e, a, a^2, a^3, a^4\}$	
Week 9	4) The order of Alternating group of degree $2n$ is	1 point
Week 10	$^{2n}C_2$	
Week 11		
Week 12	$^{\prime\prime}C_{2}$	
	n!/2	
	(2n)!/2	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers:	
	5) Which of the following is a possible order for a group so that more than one group structures can be found corresponding to it ?	1 point
	O 2	
	O 3	
	4	
	5	
	No, the answer is incorrect.	
	4	
	6) Which one of the following options is not a Point group operation?	1 point
	Translation	
	Rotation	
	Reflection	
	Inversion	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	7) The second seco	1 maint
	() The group consisting of $n^{\circ\circ}$ roots of unity is	1 point
	C	
	A_n	
	10	

S_n None of the ab	ove										
No, the answer is inc	correc	rt.									
Accepted Answers: C_n											
8) The number of possible cycle structures of the symmetric group S_8 is 1 p											1 point
 24 20 23 22 											
No, the answer is incorrect.											
Accepted Answers:											
9) The multiplication ta	ble of	a grou	p is giv	ven in	table 1	L.					1 point
		E	Α	В	\mathbf{C}	Κ	\mathbf{L}	Μ	Ν		
	Е	Е	Α	В	С	Κ	L	Μ	Ν	-	
	Α	A	Κ	Ν	В	\mathbf{L}	Е	\mathbf{C}	\mathbf{M}		
	В	В	С	Κ	\mathbf{L}	Μ	Ν	Е	А		
	С	C	Μ	\mathbf{L}	Κ	Ν	В	А	Ε		
	Κ	K	\mathbf{L}	Μ	Ν	Ε	А	В	С		
	\mathbf{L}	\mathbf{L}	Ε	С	Μ	А	Κ	Ν	В		
	Μ	M	Ν	Ε	А	В	С	Κ	\mathbf{L}		
	Ν	N	В	\mathbf{L}	Ε	С	Μ	А	Κ		

Table 1.

Find the π_K .

$$\begin{pmatrix} E & A & B & C & K & L & M & N \\ L & E & C & M & A & K & N & B \end{pmatrix}$$

$$\begin{pmatrix} E & A & B & C & K & L & M & N \\ K & L & M & N & E & A & B & C \end{pmatrix}$$

$$\begin{pmatrix} E & A & B & C & K & L & M & N \\ M & N & E & A & B & C & K & L \end{pmatrix}$$

$$\begin{pmatrix} E & A & B & C & K & L & M & N \\ M & N & E & A & B & C & K & L \end{pmatrix}$$

$$\begin{pmatrix} E & A & B & C & K & L & M & N \\ M & N & E & A & B & C & K & L \end{pmatrix}$$
No, the answer is incorrect.
Score: 0
Accepted Answers:

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