**ΑΣΚΗΣΗ 1**

**Βήμα 1**

|  |  |
| --- | --- |
| **VAV** (V) | **α** ( **0** ) |
| 200 | 29 |
| 180 | 44 |
| 160 | 57 |
| 140 | 69 |
| 120 | 79 |
| 100 | 88 |
| 80 | 98 |
| 60 | 108 |
| 40 | 122 |
| 20 | 137 |
| 10 | 145 |
| 2,3 | 160 |

**Βήμα 3**

α) **VAV** = 100V **VAV** = 200V

**VRMS** = 161V **VRMS** = 235V

β) **VAV** = 100V **VAV** = 200V

**VRMS** = 100V **VRMS** = 200V

γ) **VAV** = 100V **VAV** = 200V

**VRMS** = 111V **VRMS** = 222V



**ΑΣΚΗΣΗ 2**

**Βήμα 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **n** (rpm) | **VA** (V) | **n** (rpm) | **Vf** (V) | **If** (A) |
| 1690 | 170 | 1500 | 200 | 0,6 |
| 1490 | 150 | 1520 | 184 | 0,55 |
| 1300 | 130 | 1540 | 167 | 0,5 |
| 1095 | 110 | 1580 | 150 | 0,45 |
| 900 | 90 | 1620 | 133 | 0,4 |
| 700 | 70 | 1680 | 116 | 0,35 |
| 390 | 40 | 1790 | 100 | 0,3 |
| 90 | 10 |  |  |  |
| 0 | 2 |  |  |  |

**Βήμα 2**

|  |  |  |
| --- | --- | --- |
| **Ρεύμα τυμπάνου**  **ΙΑ** (Α) | **Μέτρηση ροπής**  **b** (cm) | **Στροφές**  **n** (rpm) |
| 0 | 0 | 1690 |
| 1 | 2,4 | 1660 |
| 2 | 6,5 | 1640 |
| 3 | 10 | 1620 |
| 4 | 14 | 1590 |
| 5 | 17,9 | 1560 |
| 6 | 21,5 | 1535 |
| 7,6 | 27,5 | 1490 |

**ΑΣΚΗΣΗ 4**

**Βήμα 3**

1. **VAV = 84** V, **IAV = 5** A, **Irms = 6,8** A
2. **VAV = 84** V, **IAV = 5** A, **Irms = 6,6** A

**ΑΣΚΗΣΗ 5**

**Βήμα 2**

**VAV = 8** V, **Vrms = 65** V