

| Nº     | T1 | T2 | T3 | Prova | RT1 | RT2 | a)   |    |                       |           |           | b)     |             |          |           | c)             |               |                         |                      |                                      | 2                    |              |                  | Soma | RT3 | Exame | Final |
|--------|----|----|----|-------|-----|-----|------|----|-----------------------|-----------|-----------|--------|-------------|----------|-----------|----------------|---------------|-------------------------|----------------------|--------------------------------------|----------------------|--------------|------------------|------|-----|-------|-------|
|        |    |    |    |       |     |     | f. n | dS | integral em rho theta | primitiva | resultado | esboço | divergência | integral | resultado | parametrização | produto misto | integral no paraboloide | integral no cilindro | teorema da divergência a bater certo | conjuntos em estrela | justificação | potencial vector |      |     |       |       |
|        |    |    |    |       |     |     |      |    |                       |           |           |        |             |          |           |                |               |                         |                      |                                      |                      |              |                  |      |     |       |       |
|        |    |    |    |       |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 1                                    | 0,5                  | 1            | 1,5              | 20   |     |       |       |
| 94075  | 13 | 8  |    | 3A    |     |     | 1    | 1  | 1                     | 0         | 0         | 0      | 0           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 0                | 3    | 3   |       | RE    |
| 109402 | 15 | 13 | 13 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 1                                    | 0                    | 0            | 0                | 17   | 17  |       | 15    |
| 109427 | 15 | 13 | 12 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 0,5    | 1,5         | 1        | 0         | 1              | 1             | 2                       | 1                    | 0                                    | 0,5                  | 0            | 0                | 13,5 | 14  |       | 14    |
| 109446 | 15 | 15 | 12 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 0      | 2           | 2        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 0                | 9    | 9   |       | 14    |
| 109528 | 14 | 15 | 7  | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 1                       | 0                    | 0                                    | 0                    | 0            | 14               | 14   |     | 14    |       |
| 109571 | 10 | 10 | 6  | 3A    |     |     | 1    | 0  | 1                     | 1         | 0         | 1      | 2           | 1        | 0         | 1              | 1             | 0                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 9,5  | 10  |       | 10    |
| 109586 | 15 | 14 | 8  | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 0,5       | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 10,5             | 11   |     | 13    |       |
| 109689 | 11 | 13 | 3  | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 1                                    | 0,5                  | 0            | 0                | 17,5 | 18  |       | 14    |
| 109739 | 14 | 15 | 11 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 0         | 1              | 1             | 2                       | 0,5                  | 0                                    | 0,5                  | 0            | 0                | 15   | 15  |       | 15    |
| 109756 | 15 | 15 | 7  | 3A    |     |     | 0    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 1                                    | 0                    | 0            | 0                | 16   | 16  |       | 15    |
| 109807 | 12 | 12 | 6  | 3A    |     |     | 1    | 1  | 1                     | 1         | 0,5       | 0      | 2           | 2        | 1         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 9,5              | 10   |     | 11    |       |
| 109831 | 9  | 13 | 5  | 3A    |     |     | 1    | 1  | 1                     | 1         | 0         | 0      | 2           | 2        | 0         | 1              | 1             | 1                       | 1                    | 0                                    | 0,5                  | 0            | 0                | 12,5 | 13  |       | 12    |
| 110085 | 14 | 13 | 8  | 3A    |     |     | 1    | 1  | 1                     | 1         | 0,5       | 1      | 1           | 2        | 0,5       | 1              | 1             | 2                       | 0                    | 1                                    | 0                    | 0            | 0                | 14   | 14  |       | 14    |
| 110114 | 15 | 17 | 14 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 1                                    | 0,5                  | 1            | 1                | 19,5 | 20  |       | 17    |
| 110143 | 15 | 12 | 11 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 0,5       | 1              | 1             | 2                       | 1                    | 1                                    | 0                    | 0            | 0                | 16,5 | 17  |       | 15    |
| 110168 | 15 | 15 | 8  | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 0,5           | 1                       | 0                    | 0                                    | 0                    | 0            | 13,5             | 14   |     | 15    |       |
| 110235 | 10 | 11 | 1  | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 11               | 11   |     | 11    |       |
| 110537 | 15 | 12 | 6  | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 0      | 2           | 1        | 0         | 1              | 1             | 2                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 12,5 | 13  |       | 13    |
| 110576 | 15 | 13 | 11 | 3A    |     |     | 0    | 0  | 0                     | 0         | 0         | 1      | 2           | 1,5      | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 4,5              | 5    |     | 13    |       |
| 110716 | 15 | 17 | 10 | 3A    |     |     | 0    | 0  | 0                     | 0         | 0         | 0      | 2           | 0        | 0         | 1              | 1             | 2                       | 0                    | 0                                    | 0                    | 0            | 6                | 6    |     | 14    |       |
| 110718 | 12 | 15 | 12 | 3A    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 1                                    | 0,5                  | 0            | 0                | 17,5 | 18  |       | 15    |
| 111124 | 11 | 7  | 5  | 3A    |     |     | 0    | 0  | 0                     | 0         | 0         | 0      | 0           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 0                | 0    | 0   |       | RE    |
| 109266 | 15 | 10 | 4  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 8                | 8    |     | 11    |       |
| 109346 | 15 | 11 | 10 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 0              | 0             | 0                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 11,5 | 12  |       | 13    |
| 109418 | 15 | 15 | 11 | 3B    |     |     | 1    | 1  | 1                     | 1         | 0,5       | 0      | 2           | 1        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 7,5              | 8    |     | 14    |       |
| 109638 | 12 | 9  | 8  | 3B    |     |     | 0    | 0  | 0                     | 0         | 0         | 0      | 1           | 1        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 2,5  | 3   |       | 10    |
| 109657 | 15 | 13 | 8  | 3B    |     |     | 0,5  | 1  | 1                     | 1         | 0         | 0      | 2           | 0        | 0         | 1              | 0,5           | 1                       | 0,5                  | 0                                    | 0                    | 0            | 0                | 8,5  | 9   |       | 12    |
| 109726 | 17 | 16 | 16 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 0,5       | 1              | 1             | 1                       | 1                    | 0                                    | 0,5                  | 1            | 0                | 16   | 16  |       | 16    |
| 109763 | 17 | 16 | 5  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 0      | 2           | 1        | 0         | 1              | 1             | 0                       | 1                    | 0                                    | 0                    | 0            | 0                | 11   | 11  |       | 15    |
| 109936 | 15 | 15 | 11 | 3B    |     |     | 1    | 1  | 1                     | 1         | 0,5       | 0,5    | 2           | 1        | 0         | 1              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 9                | 9    |     | 14    |       |
| 109953 | 15 | 15 | 15 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 0             | 0                       | 1                    | 0                                    | 0,5                  | 1            | 0                | 14,5 | 15  |       | 15    |
| 109965 | 10 | 9  | 10 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 0      | 2           | 0        | 0         | 1              | 0             | 0                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 8,5  | 9   |       | 10    |
| 109967 | 15 | 10 | 8  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 0,5       | 1              | 1             | 2                       | 1                    | 0                                    | 0,5                  | 0            | 0                | 16   | 16  |       | 14    |
| 110032 | 10 | 12 | 9  | 3B    |     |     | 1    | 1  | 1                     | 0         | 0         | 1      | 2           | 2        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 8                | 8    |     | 10    |       |
| 110033 | 15 | 11 | 9  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 0      | 2           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 7                | 7    |     | 12    |       |
| 110169 | 13 | 14 | 10 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 1                    | 0,5                                  | 0                    | 0            | 0                | 16,5 | 17  |       | 15    |
| 110222 | 15 | 13 | 12 | 3B    |     |     | 1    | 1  | 1                     | 1         | 0         | 0      | 2           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 6,5  | 7   |       | 13    |
| 110348 | 13 | 15 | 9  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 12               | 12   |     | 13    |       |
| 110367 | 12 | 15 | 0  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 1              | 1             | 2                       | 0                    | 0,5                                  | 0                    | 0            | 0                | 15,5 | 16  |       | 14    |
| 110448 | 10 | 13 | 11 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 0           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 6                | 6    |     | 11    |       |
| 110486 | 15 | 14 | 11 | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 0      | 0           | 0        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 5                | 5    |     | 13    |       |
| 110571 | 15 | 15 | 6  | 3B    |     |     | 1    | 1  | 1                     | 1         | 1         | 1      | 2           | 2        | 1         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 11               | 11   |     | 14    |       |
| 110759 | 15 | 10 | 7  | 3B    |     |     | 1    | 1  | 1                     | 1         | 0,5       | 1      | 2           | 1        | 0         | 0              | 0             | 0                       | 0                    | 0                                    | 0                    | 0            | 8,5              | 9    |     | 11    |       |
| 110773 | 13 | 14 | 11 | 3B    |     |     | 1    | 1  | 1                     | 1         | 0,5       | 1      | 2           | 2        | 0         | 1              | 0             | 0                       | 0                    | 0                                    | 0,5                  | 0            | 0                | 11   | 11  |       | 13    |