|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| m | **800** | kg | 7840 | N (w) |
| v1 | **40** | km/h | 49382,7160 | J (Ec) |
| v2 | **70** | km/h | 151234,5679 | J (EC) |
| d | **100** | m | -31,6227766 | m (h) |
| tg  | **-0,33** | -0,3218 | -247922,5686 | J (Eg1) |
|  |  T =EC2 +EPG2 - EC1 |  |
|  |  |  **T** | **-146070,7167** | **J** |
|  |  t = 2d / (v2 + v1 ) |  |
|  |  | t | 6,545454545 | s |
|  |  | **P** | **-29,9147** | **HP** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| m | **50** | gr | 0,0500 | kg |
| H | **80** | cm | 0,8000 | m |
| Lo | **8** | cm | 0,0800 | m |
| k | **560** | N /m | 560,0000 | N/m |
|  | **[**k**] h2**+**[**2m.g -2.k .**L]** **h** + **[**k.**L**^2 – 2.m.g(H+Lo)**] = 0** |
|  |  |  | 560,0000 | N/m (a) |
|  |  |  | -88,6200 | N (b) |
|  |  |  | 2,7216 | Nm (c) |
|  | h =(-b±(b^2-4\*a\*c)^0,5)/(2\*a) |  |
|  | **No** | **h1** | **11,6552** | **cm** |
|   | **Si** | **h2** | **4,1698** | **cm** |

|  |  |  |  |
| --- | --- | --- | --- |
| m | **2** | kg |  T =EC2 +T/ -EPG1 -EC1 |
| v1 | **0** | m /s | 0,0000 | J (Ec1) |
| t | **4** | s | 9,0000 | J (Ec2) |
| v2 | **3** | m /s | 0,7500 | m/s2 (a) |
|  | **0,6** |  | 69,1898 | J (T/ f) |
| **y** | **20** | 101,98 | 6,0000 | m (d) |
| **x** | **100** |  | 1,1767 | m (h) |
|  |  |  | 23,0633 | J (Eg2) |
|  | T= Ec2+T/f+Epg2-Ec1 |  |
|  |  |  **T** | **101,2530** | **J** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| mA | **40** | kg |  |  |
| mB | **5** | kg |  |  |
| h | **10** | m |  |  |
| D | **0,3** | m | 0,1500 | m (R) |
|  |  v22 = ( 2 ,mA.g .h / ( mA + mB /2 ))^0,5 |  |
|  |  | **v2** | **13,5820** | **m/s** |
|  |   = (v2 /R )\*(60/(2\*pi())) |  |
|  |  | **** | **864,6567** | **r.p.m.** |