Instructor example)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mass (g) | Angle () | |  | Force | | x-component (*N*) | | y-component (*N*) | |
| 1 | 250 | 0 | |  |  | |  | |  | |
| 2 | 350 | 250 | |  |  | |  | |  | |
| e | 336 | 115 | |  |  | |  | |  | |
|  |  |  | |  |  | |  | |  | |
|  | | |  | | |  | |  | |  |

1)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mass (g) | | Angle () |  | | Force | x-component (*N*) | | y-component (*N*) | |
| 1 | 230.0 | | 180 |  | |  |  | |  | |
| 2 | 450.2 | | 90 |  | |  |  | |  | |
| e | 500.0 | | 297.75 |  | |  |  | |  | |
|  |  | |  |  | |  |  | |  | |
|  | |  | | |  | | |  | |  |

2)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mass (g) | Angle () | |  | Force | | x-component (*N*) | | y-component (*N*) | |
| 1 | 549.9 | 174 | |  |  | |  | |  | |
| 2 | 299.9 | 306 | |  |  | |  | |  | |
| e | 415.0 | 12.3 | |  |  | |  | |  | |
|  |  |  | |  |  | |  | |  | |
|  | | |  | | |  | |  | |  |

3)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mass (g) | | Angle () |  | | Force | x-component (*N*) | | y-component (*N*) | |
| 1 | 300.0 | | 250 |  | |  |  | |  | |
| 2 | 150.0 | | 300 |  | |  |  | |  | |
| 3 | 399.8 | | 30 |  | |  |  | |  | |
| e | 390.1 | | 144 |  | |  |  | |  | |
|  |  | |  |  | |  |  | |  | |
|  | |  | | |  | | |  | |  |