Worksheet B: Components of forces

The component of a force in any given direction is a measure of the effect of the force in that direction.

For each of the force diagrams below, find the components or sum of the components in the direction of (i) the *x*-axis and (ii) the *y-*axis.

1.

|  |  |  |
| --- | --- | --- |
| a)  30o  8N | b)  10N | c)  40o  10N |
| d)  45o  N | e)  60o  10N | f)  N |

2.

10N

60o

|  |  |  |
| --- | --- | --- |
| a)  10N  30o | b) | c)  45o  10N |

Worksheet B: Components of forces continued

3.

|  |  |  |
| --- | --- | --- |
| a)  6N  60o  30o  8N | b)  50o  30o  10N  6N  4N | c)  60o  12N  6N  30o  8N |

4.

|  |  |  |
| --- | --- | --- |
| a)  10N  60o  8N  12N | b)  100o  N  10N  12N  20o | c)  Q  P  R |