Name _____ Course No. _____ Section No. _____ Date _____

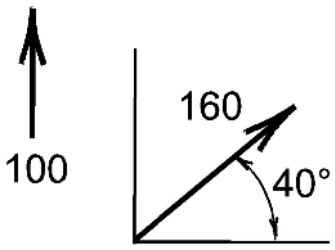
Statics - Quiz 4

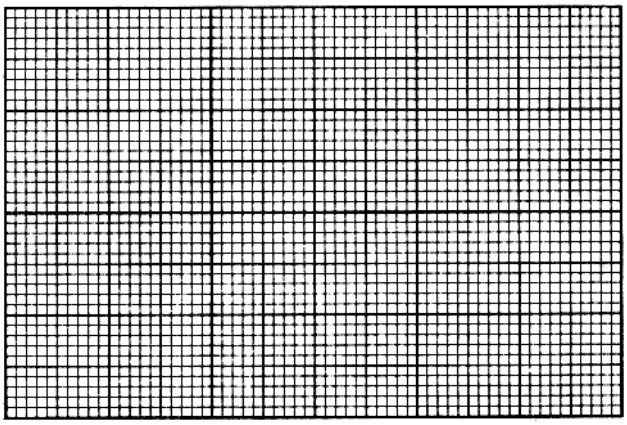
Given the vectors $\bar{A} = -7\bar{i} + 6\bar{j} + 3\bar{k}$ and $\bar{B} = 3\bar{i} + 2\bar{j} + 5\bar{k}$

1. $\bar{B} - \bar{A} =$ _____

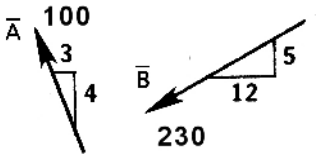
2. $\bar{A} + \bar{B} =$ _____

3. Find the resultant of the vectors by means of graphical addition.

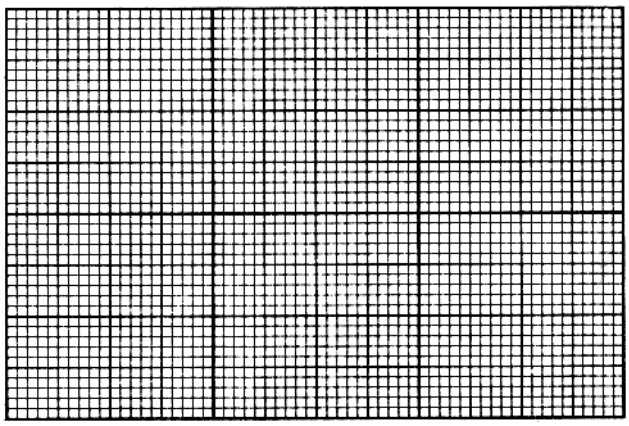




4. Find the resultant of the vectors by means of algebraic addition.



5. Three forces act on a body. $\bar{F}1 = 50\bar{i} + 40\bar{j}$ kilograms $\bar{F}2 = 30\bar{i} + 40\bar{j}$ kilograms $\bar{F}3 = -20\bar{i} - 30\bar{j}$ kilograms. Find the resultant of the forces by means of graphical addition.



Name _____ Course No. _____ Section No. _____ Date _____

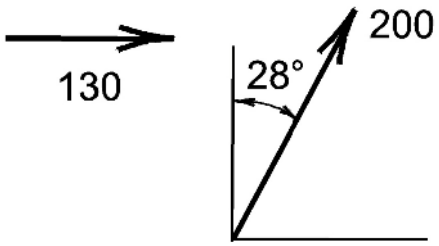
Statics - Quiz 4

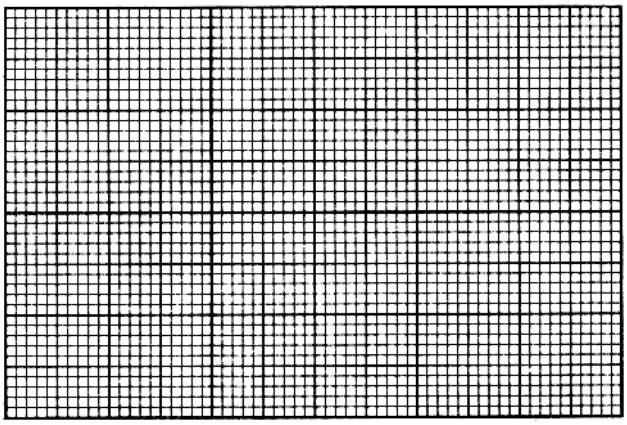
Given the vectors $\bar{A} = 7\bar{i} - 6\bar{j} + 3\bar{k}$ and $\bar{B} = 3\bar{i} + 2\bar{j} - 5\bar{k}$

1. $\bar{B} - \bar{A} =$ _____

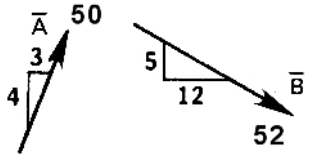
2. $\bar{A} + \bar{B} =$ _____

3. Find the resultant of the vectors by means of graphical addition.





4. Find the resultant of the vectors by means of algebraic addition.



5. Three forces act on a body. $\bar{F}1 = 50\bar{i} + 70\bar{j}$ pounds $\bar{F}2 = -30\bar{i} + 40\bar{j}$ pounds $\bar{F}3 = 20\bar{i} - 30\bar{j}$ pounds. Find the resultant of the forces by means of graphical addition.