Name: Date: Period:

Graphical Vector Problems

1. Draw the following vectors:

$\vec{A} = 4$ cm, EAST $\qquad$ $\vec{B} = 2$ cm, SOUTH

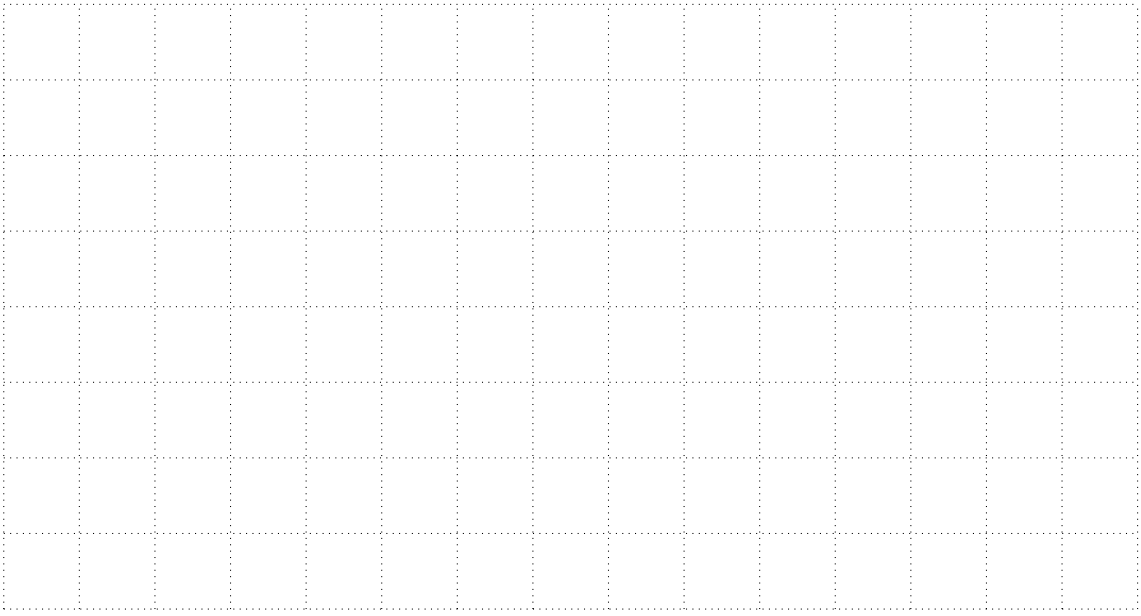
$\vec{C} = 3$ cm @ 30° N *of* E $\qquad$ $\vec{D} = 4$ cm @ 20° W *of* S

2. Show that the following resultants are all equivalent:

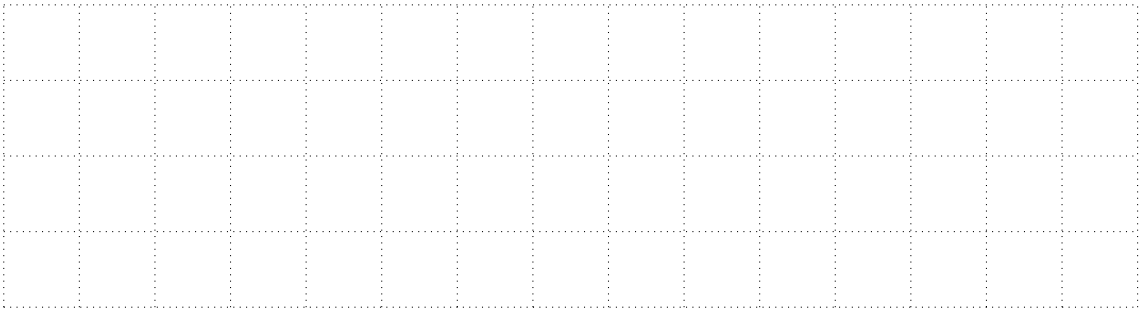
$\vec{R}_1 = \vec{A} + \vec{B}$ *(using 'tip-to-tail')*

$\vec{R}_2 = \vec{B} + \vec{A}$ *(using 'tip-to-tail')*

$\vec{R}_3 = \vec{A} + \vec{B}$ *(using a parallelogram)*



3. Draw $\vec{R}_1 = 2\vec{A}$ and $\vec{R}_2 = -3\vec{A}$.



4. Draw $\vec{R} = 3.5\vec{A} - 2\vec{B}$

5. Draw $\vec{R} = \vec{C} - 2\vec{D}$.