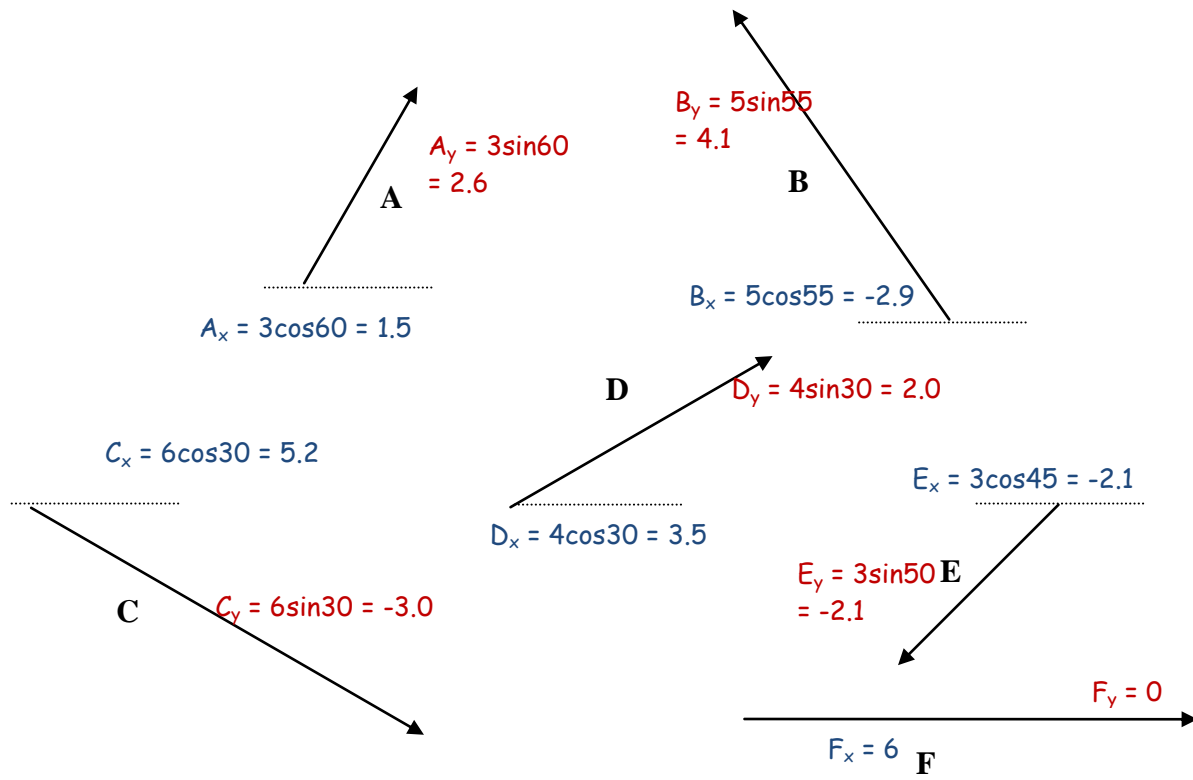
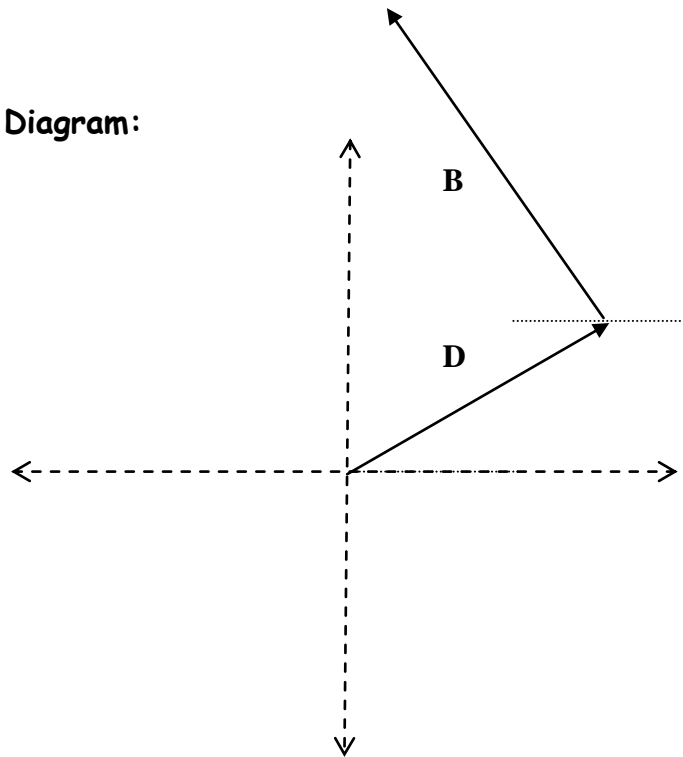


Analytic Addition of Vectors Drill



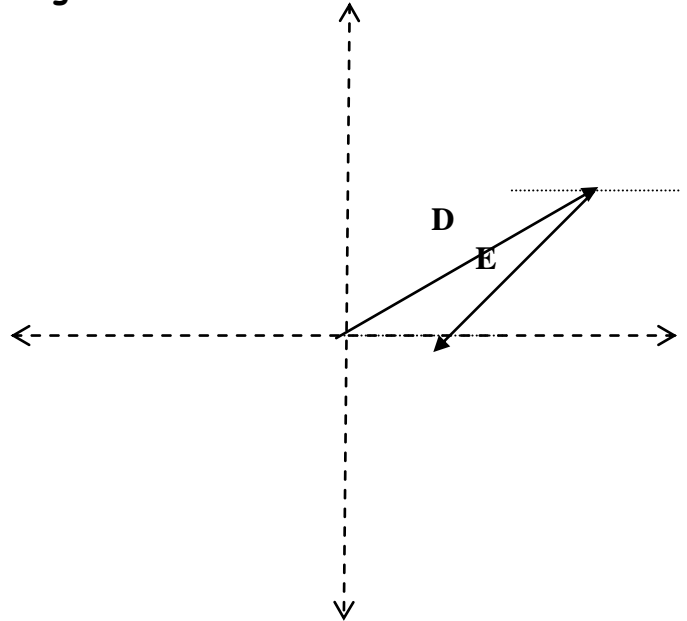
Vector	x-comp.	y-comp.
B	-2.9	4.1
D	3.5	2.0
Totals	0.6	6.1
Magnitude	$\sqrt{0.6^2 + 6.1^2} = 6.1$	
Direction	$\tan^{-1}(6.1/0.6) = 84^\circ$ above +x	

Diagram:



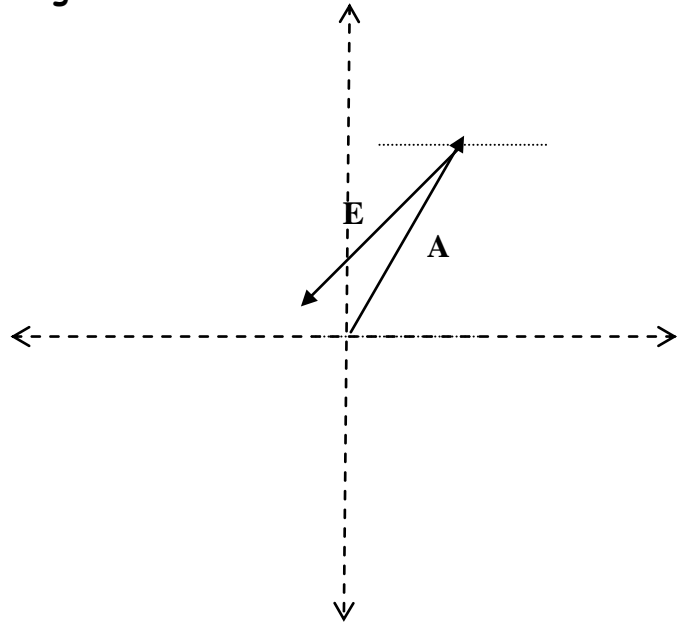
Vector	x-comp.	y-comp.
D	3.5	2.0
E	-2.1	-2.1
Totals	1.4	-0.1
Magnitude	1.4°	
Direction	4 below + x	

Diagram:

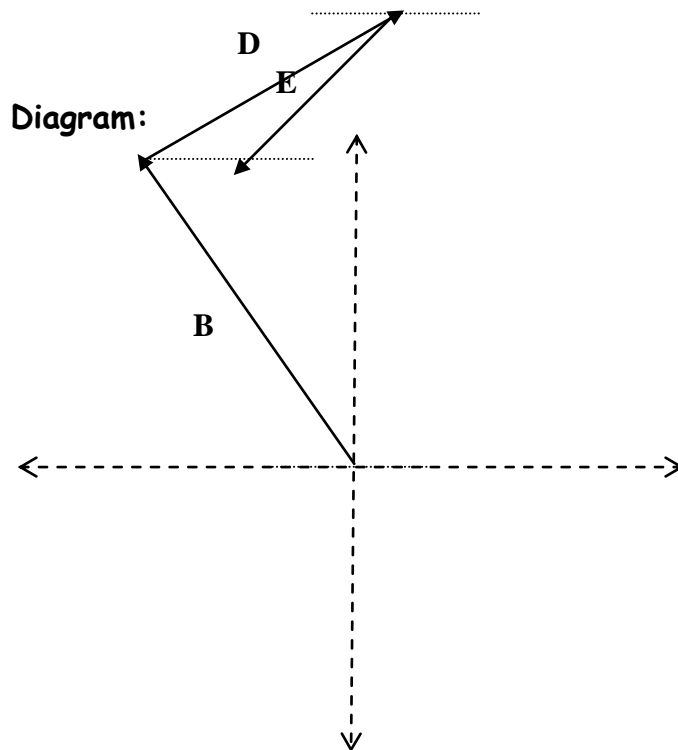


Vector	x-comp.	y-comp.
A	1.5	2.6
E	-2.1	-2.1
Totals	-0.6	0.5
Magnitude	0.78	
Direction	40° above -x	

Diagram:



Vector	x-comp.	y-comp.
B	-2.9	4.1
D	3.5	2.0
E	-2.1	-2.1
Totals	-1.5	4.0
Magnitude	4.3	
Direction	69° above -x	



Vector	x-comp.	y-comp.
F	6.0	0.0
A	1.5	2.6
E	-2.1	-2.1
C	5.2	-3.0
Totals	10.6	-2.5
Magnitude	10.9	
Direction	11° below +x axis	

