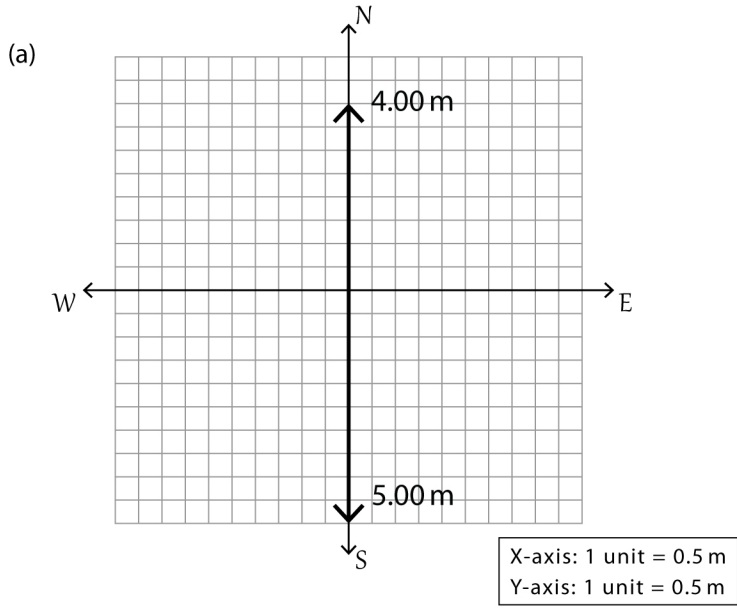
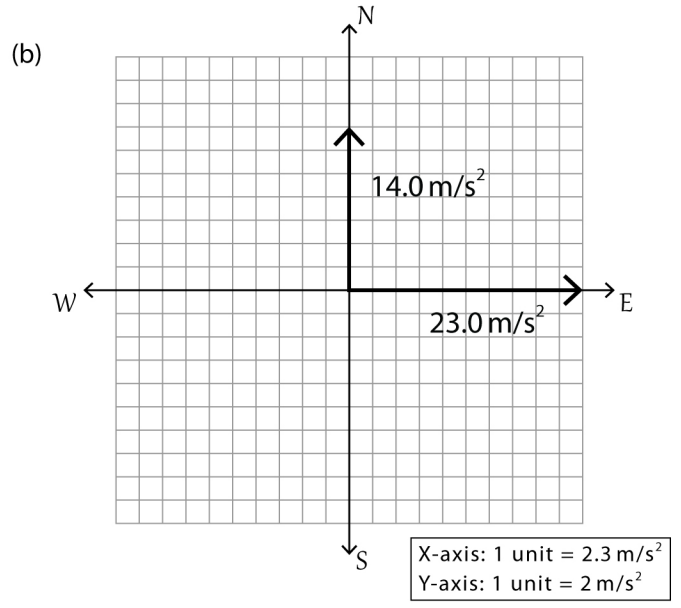


1 Calculate the magnitude and direction of the resultant for each of the pair of vectors in a and b

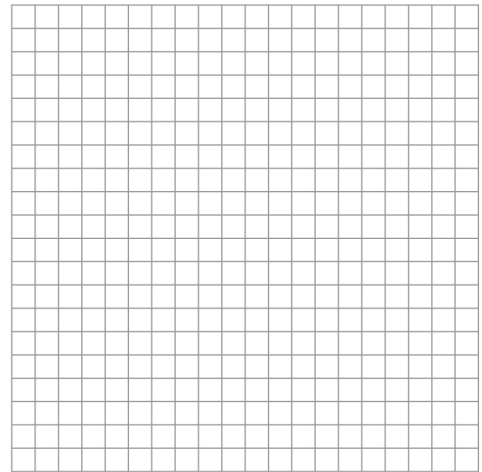


Magnitude _____
 Direction _____



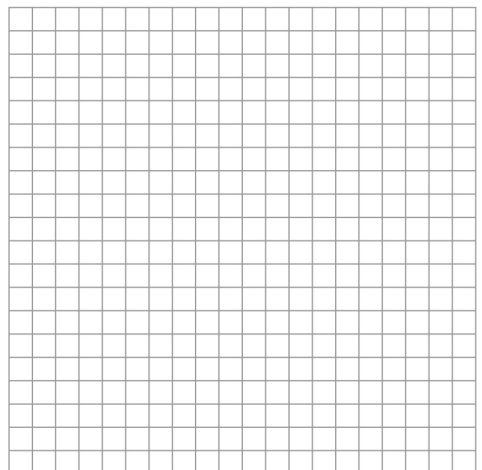
Magnitude _____
 Direction _____

2 Graph and determine the resultant
 A = 30 N km at 0° and B = 40 N km at 90°



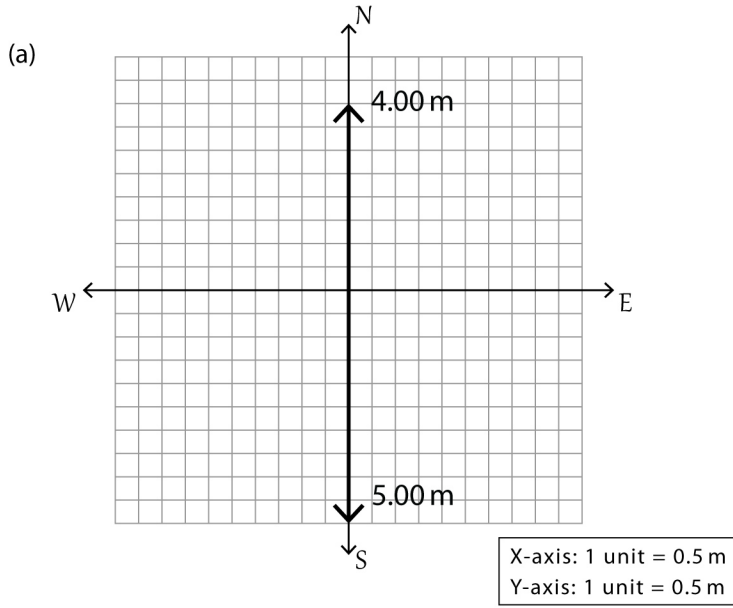
Resultant (R) _____

3 At an angle of 65° with the ground, a string is attached to an airplane. When 170 m of the string is reeled in to bring the kite back to the ground, what are the horizontal and vertical displacements of the kite? (Round your answer to the nearest whole number).

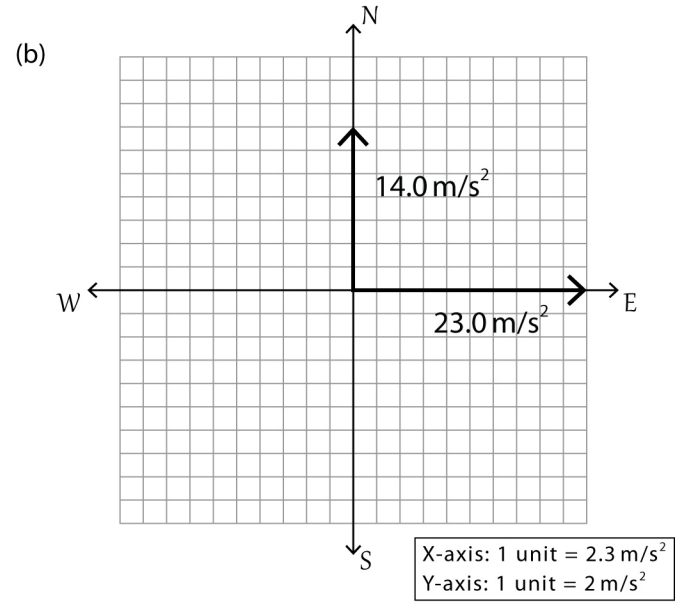


Horizontal displacement _____
 Vertical displacement _____

1 Calculate the magnitude and direction of the resultant for each of the pair of vectors in a and b

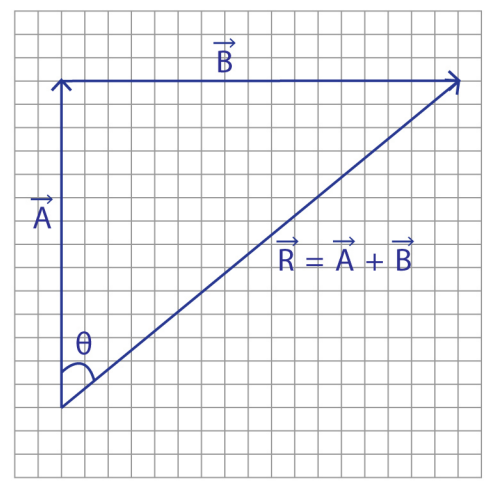


Magnitude 1 m
 Direction South



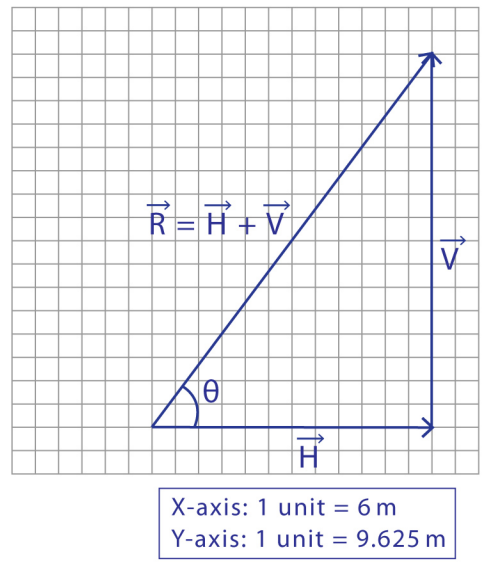
Magnitude 26.9 m/s²
 Direction 31.3° N of E or 58.7° E of N

2 Graph and determine the resultant
 A = 30 N km at 0° and B = 40 N km at 90°



Resultant (R) 50 N km at 53°

3 At an angle of 65° with the ground, a string is attached to an airplane. When 170 m of the string is reeled in to bring the kite back to the ground, what are the horizontal and vertical displacements of the kite? (Round your answer to the nearest whole number).



Horizontal displacement 72 m
 Vertical displacement 154 m