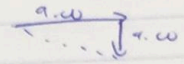
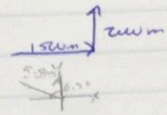
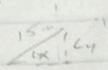
Test Rev 39q.



1. 9.85 km/h – canoe = 9.00 km/h ; river = 4.00 km/h
2. corresponding are congruent – not true for similar triangles
3. 2520 m – hiker = 1520 m ; height 2000 m



4. 146° – approximate Cartesian plane



6. $L_y = 5.13$ m , $L_x = 14.1$ m

1. False – to find resultant, add magnitudes
2. False – vector resultants are direct product of resolving components.
3. False – vector components can be used to find resultant in 2D
4. False – for two vectors M, N, does $|M+N| = |M| + |N|$
5. True – scalar components of 2D vectors may be negative, but magnitude is positive

1. head (tip) – indicator of direction
2. direction remains same unless – multiplying vector by scalar changes what in direction it is negative
3.