**Part B**

The recently landed Chinese Moon Rover **"Jade"** has been allowed to wander off using its Autonomous Intelligent Guidance Package (AIGP) and has got lost in a small crater and it cannot see mothership (the Chang'e Lander).

Using the last information transmitted by the Rover carefully plot its path out to determine (a) its distance and (b) its azimuth from the Lander
(Hint: use right angle triangles and vector resolution to determine the vector sum.)

**Rover Information:**

From the Chang'e lander the Rover headed due E at 2 km/hr for 15 min, then it turned and headed 30° N of E for 10 min at 3 km/hr and stopped just in front of a crevasse. It then headed due N parallel to the crevasse and traveled at a speed of 1.5 km/hr for 25 min as it made detailed measurements. Finally, before it was lost from sight in the crater the Rover turned and headed towards the NW traveling at 4 km/hr for 12 min.

**Don't forget to show all your workings OK!**