

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | Nautical Science | **GRADE** | 12 | **DATE** | 8/4/20 |
| **TOPIC** | Practical Chartwork | **TERM 1****REVISION** | X | **TERM 2 CONTENT** | X |
| **TIME ALLOCATION** | 20min | **TIPS TO KEEP HEALTHY**1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick. 5. **STAY AT HOME.**  |
| **INSTRUCTIONS** | This worksheet is to be completed in your MRTE exercise/activity book.All work done on the chart must be done lightly using a 2B pencil.Courses and bearings and corrections must be calculated to the nearest ½° and plotted to a similar accuracy.Variation of 17° W is applicable where required.Scientific calculators may be used.Nautical tables may be used. |

**QUESTION 7**

A vessel steering 150° (C) observed at 10:00 Cape Point Lt. bearing 070° (C).

At 11:00 Cape Point Lt. was observed bearing 010° (C). The vessel maintained a course 150° (C) and engine speed of 7 knots throughout. The current was known to set 270° (T) at 1,0 knot.

Determine the vessel's position at 11:00.

 **[20]**