## Chapter 6

#### REVIEW

#### 6.1 Introduction to Vectors

- For which of the following situations would a vector be a suitable mathematical model? Provide a reason for your decision.
  - a) A car is travelling at 70 km/h northeast.
  - b) A boy is walking at 5 km/h.
  - c) A rocket takes off as an initial speed of \$00 km/h at \$0° from the horizontal.
  - d) An airplane is sighted 20 km away.
  - el A man's height is 180 cm.
- Convert each true bearing to its equivalent quadrant bearing.
  - at 130°
  - b) 080\*
  - 49 2.50°
- Use an appropriate scale to draw each vector.
  Label the magnitude, direction, and scale.
  - a) velocity of 140 km/h due west
  - b) acceleration of 20 m/s<sup>2</sup> at a bearing of 105°
  - c) force of 100 N upward

#### 6.2 Addition and Subtraction of Vectors

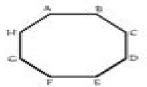
 The diagram shows a regular octagon. Write a single vector that is equivalent to each vector expression.



b) GH - GF

OFE+BA

d) GA - EH + DG



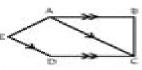
5. A camera is suspended by two wires over a football field to get shots of the action from above. At one point, the camera is closer to the left side of the field. The tension in the wire on the left is 1500 N, and the tension in the wire on the right is 800 N. The angle between the two wires is 130°.



- a) Draw a vector diagram of the forces, showing the resultant.
- b) Determine the approximate magnitude and direction of the resultant force.

#### 6.3 Multiplying a Vector by a Scalar

- Express each sentence in terms of scalar multiplication of a vector.
  - a) An apple has a weight of 1 N, and a small car has a weight of 10 000 N.
  - b) A boat is travelling at 25 km/h northbound. It turns around and travels at 5 km/h southbound.
  - 4) Acceleration due to gravity on Earth is 9.8 m/s<sup>2</sup>, and on the Moon it is 1.63 m/s<sup>2</sup>.
- 7. ABCDE is a pentagon such that  $\overrightarrow{AB} = \overrightarrow{DC}$  and  $\overrightarrow{AC} = 2 \overrightarrow{ED}$ . Write E each vector in terms of  $\overrightarrow{AB}$  and  $\overrightarrow{AC}$ .



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4) 乙醇

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# **Mhr Calculus And Vectors 1solutions Chapter 6**

**B** Lingard

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