

Textbook - Vectors Review - AnswersPage 129 #10-14, 25, 26, 29, 30 and Page 692 #8, 9, 12Page 129, 130

10.) Vector subtraction problem. Subtract the opposite of the storm from the Heading due south.

510 m. Head $78.7^\circ S$ of W

11.) 5 km northwest of the camp. Should head $53^\circ S$ of E to get back.

12.) $24.2 N$ at $72^\circ N$ of W

13a.) $10 \frac{m}{s}$ at 53° from bank b.) 30 s c.) 180 m

14a.) $34^\circ N$ or out from the shore. b.) 90 s or 1.5 min c.) 540 m d.) same time.

25.) 78 km away at $43^\circ E$ of N .

26a.) $110 N$ b.) $107 N$ at $19^\circ E$ of N c.) $96 N$ at $39^\circ E$ of N d.) $81 N$ at $60^\circ E$ of N

e.) $30 N$ south or in direction of $70 N$ force.

29.) $74 N$ at 253°

30.) $43 N$ at $43^\circ S$ of W

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8.) $112 \frac{m}{s}$ at $27^\circ W$ of N

9.) $820 N$ at $52^\circ S$ of W

12.) $200 N$