Regular/ Honors Vector Test Review	NAME: KEY
	Om, turns northward for 200m, and finally half distance and direction of the boat from its $N = \frac{1}{300^2 + 200^2} = C^2$
<u>360.6</u> m 33.7 Nof E	c 100 200 c = 360.6 m
	$\frac{1}{400}$ (2) $\frac{1}{400}$ (2) $\frac{1}{300}$ (2) $\frac{1}{300}$
2. A 150kg light hangs between two wires the tension in each wire? 42,114.5 n	res that make a 178° angle with each other. What (1) $F\omega = 150 \times 9.8$ (3) $F\omega = 1470$ (2) $+2$ $F\omega_{\chi} = 735 N$ $COS 89 = \frac{135}{7}$ $T = \frac{735}{0.589} = 42,114.5 N$
	o cables and the tension of each cable is 1989n,
4. A force acts on a mass with 900n 20 1500n 37° N of E. What is the result	10 E of N. A second force acts on the mass with 10 \times 2.
2307.5 n 49.3 Not E	1 cq 900
$ \begin{array}{ll} \text{(1)} & 20+37=57 \\ & 90-57=33 \\ & 180-33=147^{6}=2. \end{array} $ $ \begin{array}{ll} \text{(2)} & c=\sqrt{900^2+1500^2-2.900} \end{array} $	$\frac{1500}{370} = \frac{1500}{370} = \frac{9005in147}{2307.5}$ $A = 12.30$
$c = \sqrt{900^2 + 1500^2 - 2.100}$ $c = 2307.5 N$	A = 12.3° (1) 37 +12.3 = 49.3

NAME: KEY