UNM Physics 262, 25 Sep 2006 Midterm Exam 1: Optics

Name and/or CPS numb	per:
=	all credit. Remember that quantities have units and vectors have and direction). \mathbf{ASK} if anything seems unclear.
USE OF THESE	AS AND CELL PHONES ARE PROHIBITED. WILL RESULT IN A ZERO FOR THE EXAM. ny factors of π , e , $\sqrt{2}$, etc. in your answers.
You may use a single 8.5° × assist you.	11" paper containing notes you have prepared ahead of time to
Apportion your time sen	sibly. Spend about 10–12 minutes per problem.
Plea	ase put a box around your final answers.
Useful constants: $c = 3 \times 10^8 \text{ m/s}$	
	Problem 1:
	Problem 2:
	Problem 3:
	Problem 4: