

MTH 135 TEST 4 ANSWER SHEET

I.1.  $\frac{1}{-16x^5}$

2.  $\frac{5}{4x^4y^2}$

3.  $9x^2 - 6xy + y^2$

II.1.  $(2x - 3)(2x + 3)$

2.  $(x + 5)(x + 3)$

3.  $2(x + 7)(x + 2)$

4.  $(2x - 5)(x + 3)$

5.  $(x + 2)(3y + 1)$

III. 1.  $x = 0$  or  $\frac{1}{5}$

2.  $x = -4$  or  $3$

3.  $x = \frac{-1}{2}$  or  $3$

4.  $x = -3$  or  $2$

IV. B. since the concentration of the mixture must be between the concentration of the two things that you mix together.

V. 1. If you let  $x$  stand for the total amount invested then:  
 $.032x + .03x = 868$   
\$5600 into the 8% account and \$8400 into the 5% account.

2. If you let  $x$  stand for the amount of money put into the 5% account you get:  
 $255 + .05x = 350$   
\$1900

3. If you let  $x$  stand for the amount of time you get:  
 $45x + 30x = 450$   
6 hours

4. If you let  $x$  stand for the amount of pure salt added you get:  
 $8 + x = .36(40 + x)$   
10 grams