

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