Test 1 **Winter 2002** **MAT 191** **Name**_____

1. Simplify $\dfrac{x^{-3}y^{2}}{(x^{-2})^{5}}$

2. Simplify: $|-5|-|12|(-3)$

3. Solve the inequality: $3x-(x+4)<2x+1$

4. Simplify: $\dfrac{10-24+(-6)}{(-5)\bullet\sqrt{16}}$

5. Simplify: $-3(4x+3y)$

6. Simplify: $-3x+3-7x+5$

7. Simplify: $-5(2x-2)+6(-2x-7)-4(5x+1)$

8. Solve for y: $-(8+3y)+5=2y+6$

9. Solve for x: $\dfrac{3x}{4}+\dfrac{5x}{2}=13$

10. Solve for k: $-2k-3(4-2k)=2(k-3)+2$

11. Solve for h: $B = \frac{1}{4}Ahw$

12. Solve for y: $2x + 3y = 4$

13. Simplify: -3^2

14. Simplify: $(3x^2 - 8x - 2) - (4x + 7x^2 + 10)$

15. Simplify: $\frac{(3a^2b^3)^{-2}}{-4ab}$