**State the property of real numbers being used.**

1. 3x + 2y = 2y + 3x 2. (a + b)(a – b) = (a – b)(a + b) 3. 4(a + b) = 4a + 4b

**Write the interval in a different notation and graph.**

4. [-2, 6) 5. (-∞, 4] 6. x ≥ 5 7. -1 < x ≤ 5

**Evaluate the expression.**

8.  9.  10.  11.  12.  13. 

**Simplify the expression**

14.  15.  16. 

17.  18.  19. 

20.  21. 

**Rationalize the Denominator**

22. A)  b) 

**Find the domain of the expression.**

23.  24. 

**Factor the expression completely.**

25. 12x² y - 3xy + 9x³y² 26. 25 – 16t² 27. 4t² - 13t – 12

28. x - 2x² + 1 29. 3(x+2)² + 14(x+2) + 8 30. 2y - 32y²

31. x - 1 32. y³ - 2y² - y + 2 33. 8x³ + y

**Perform the indicated operations and simplify.**

34. (1 + x)(2 – x) – (3 – x)(3 + x) 35.  36. x²(x – 2) + x(x – 2)²

37.  38.  39. 

40.  41.  42. 

43.  44.  45. 

**Simplify the compound fractional expression.**

46.  47. 

**Rationalize the denominator.**

48.  49. 

**Rationalize the numerator.**

50.  51. 

Factor Completely.

52. $x^{-3/2}+2x^{-1/2}+x^{1/2}$ 53. $2x^{\frac{1}{3}}(x-2)^{2/3}-5x^{4/3}(x-2)^{-1/3}$