1. Express in terms of inequalities: .
2. Evaluate: 

**Simplify:**

1.  4.  5. 

6.  7. 

**Factor Completely:**

1. 3x3 – 21x2 + 4x – 28 9. 100z4 – 81x2 10. 
2.  12.  13. 

**Solve. Write your answer in interval notation for #14 – 16.**

14.  15.  16. 

17. 12x2 = -8x + 20 18.  19. 

20. Find the equation of the line that goes through  and the **midpoint of** (1, 7) and (-3, 9).

21. Find the equation of the line through (-1, -2) and is perpendicular to the line 2x + 5y + 8 = 0.