Geometry 1 - Mr. C. Name_____

Practice: eval. functions, solve linear eq./inequalities. Date_____ Period____

Evaluate each function.

1) $f(n) = n^3 + 4n$; Find $f(5)$

2) $f(n) = 4n + 1$; Find $f(2)$

3) $f(x) = x^3 + x^2$; Find $f(-4)$

4) $w(x) = x^2 + 5 + x$; Find $w(8)$

5) $k(t) = t^2 + 5t$; Find $k(t + 1)$

6) $h(a) = 2a^2 - 2$; Find $h(a - 4)$

7) $f(n) = 3n - 2$
$g(n) = n^3 - 4n^2$
Find $f(g(n))$

8) $g(n) = 2n - 1$
$h(n) = -3n^2 - 3$
Find $g(h(n))$

Solve each equation. Ckeck your solution.

9) $-6r + 5r = -2$

10) $-x - 4x = 15$

11) $2 - p = p + 8$

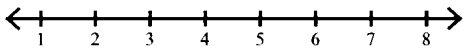
12) $-15 + 3 - 6x - 1 = 7 - 2x$

13) $-8(8 + 8n) = -2 - 2n$

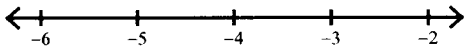
14) $-28 - 8b = 6(3b - 8) - 6$

Solve each inequality and graph its solution.

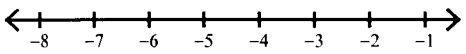
15) $-4v + 5v < 5$



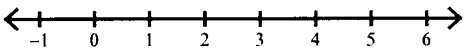
16) $a - 5a \leq 16$



17) $-2 - 2v - 1 \leq 5$



18) $1 - 7x - 4 \geq -10$



Solve each inequality.

19) $6(2k - 8) \geq -18 + 7k$

20) $-8(-4x + 3) + 8x \leq 40 + 8x$

21) $2(2 + 5k) \geq -2k + 4$

22) $-(6 - 2p) - 5p < -1 + 2p$