Equations and Inequalities
Algebra 2
Solve, check, and graph the following equations and inequalities.

1) $-78 = -9k - 15$

2) $63 = \dfrac{y}{3} + 39$

3) $-81 - 4g^2 = 115$

4) $x + 11x = -108$

5) $3x + 7 + 3x = -35$

6) $7x + 19 - 6x = 15$

7) $6x = 3x + 21$

8) $2d - 24 = 8d$

9) $11 + 5a = 3a + 41$

10) $-2x + 23 = -17 - 10x$

11) $2(2x + 6) = 20$

12) $102 = 6(3n + 2)$

13) $3(5v + 8) = 16v + 22$

14) $a + 12 > 21$

15) $b - 15 < 8$

16) $-3x + 7 < -17$

17) $-14x + 5x \geq -54$

18) $2x - 24 \geq 8x$

19) $-2x + 23 \leq -17 - 10x$