Equation Development 3.3
Algebra 2

Solve, check, and graph the following equations.

1) $100 = 36 - 4m^2$

2) $-6g^2 - 13 = -163$

3) $5(7x - 3) = 29x + 51$

4) $2x - 24 \geq 8x$

5) $27 \geq -7x + 4x$

6) $13x + 39 \geq 67 + 9x$

7) $\frac{3}{8}x = \frac{5}{12}$

8) $\frac{4}{5}x + 4 = 12$

9) $\frac{3}{14}x + \frac{5}{14}x + 21 = 40$

10) $\frac{4}{5}x - 2 = \frac{3}{8}x + 32$

11) $|a-7|=15$ 12) $|-3d+6|=27$ 13) $-2|5p|+11=61$

Solve and graph the following compound inequalities.

14) $-12 < 2m \leq 4$ 15) $m-9 \leq -15$ or $-3m \leq -12$ 16) $-18 \geq -9m > -54$

17) $\frac{-2}{3}c = -\frac{5}{9}d$ 18) $-13 = \underline{t}v$ 19) $\frac{1}{6}pq\underline{r} = -4t$ 20) $16 = -6\underline{a} - 2b$