Name: _____

Show all work and simplify all answers before circling/boxing them. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for credit.

Final due date: the last day of class.

Solve the following:

(1) $|x + 7| = 11$

(2) $|2x - 1| = 3$

(3) $\left|\dfrac{x - 4}{4}\right| = 1$

(4) $|q + 4| \leq 6$

(5) $|x + 5| > 2$

(6) $|2x - 13| > 7$

(7) $\left|\dfrac{x}{2} + 5\right| \geq 10$

(8) $|q + 6| > 1$

(9) $|2t - 8| \leq 7$

(10) Find $f(3)$ for $f(x) = \sqrt{4x - 3}$

(11) Find $f(2)$ for $f(x) = \sqrt{68 - 2x}$

(12) Find $h(2)$ for $h(x) = \sqrt[3]{4x^2 + 9x - 159}$