For #'s 1-2, simplify each radical.

1. $\sqrt{180}$

2. $\sqrt{245}$

For #'s 3-4, solve the quadratic equation (Answer should be simplified).

3. $7x^2 + 4x - 1 = 0$

4. $-x^2 + 2x + 4 = 0$

5. What is the discriminant of $2x^2 + 6x - 3 = 0$?

6. What type of solutions would you expect for:

$3x^2 - 8x + 7 = 0$?