Find $\dfrac{d^2y}{dx^2}$ for each of the following. Simplify your answer as much as possible.

Show your work neatly organized.

1. $x^2 + y^2 = 25$

2. $x^2 - 2y^2 = 7$

3. $9x^2 + 4y^2 = 36$

4. $y^2 - 2x - 2y = 1$

Find $\dfrac{d^2y}{dx^2}$ for each of the following. Simplify your answer as much as possible.

Show your work neatly organized.

5. $x^3y^2 = 2$

6. $x^2 + xy + y^2 = 10$