- 1. Determine whether $25 49y^2$ is a difference of two squares. If so, factor it. If not, explain why.
 - a. (5+7y)(5-7y)
 - b. $(5-7y^2)(5+7y^2)$
 - c. (5-7y)(5-7y)
 - d. Not a difference of squares because $-49y^2$ is not a perfect square.
- 2. The expression $9x^2 100$ is equivalent to
 - a. (9x 10)(x + 10)
 - b. (3x 10)(3x + 10)
 - c. (3x 100)(3x 1)
 - d. (9x 100)(x + 1)
- 3. If Ann correctly factors an expression that is the difference of two perfect squares, her factors could be
 - a. (2x+y)(x-2y)
 - b. (2x + 3y)(2x 3y)
 - c. (x-4)(x-4)
 - d. (2y-5)(y-5)
- 4. When factored, the expression $x^2 16$ is equivalent to