Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Factor completely ((a)-(c) 1 point each, (d) 2 points):

   (a) $xy - y - 6x + 6 =$

   (b) $9x^2 - 16y^2 =$

   (c) $9x^2 + 30x + 25 =$

   (d) $x^2y - 2x^2 - y + 2 =$

2. Factor completely:

   (a) $x^2 + 11x + 24 =$

   (b) $30x^2 - x - 3 =$

3. Factor completely:

(a) $2xy^2 - 27xy + 70x =$

(b) $4x^5 + 4x^3 + x =$