

# QUIZ 7

Time: 10min

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1. Find  $D_x y$  by implicit differentiaton:  $9x^2 + 4y^2 = 36$ .
2. Assuming that a soap bubble retains its spherical shape as it expands, how fast is it radius increasing when it radius is 3 inches if air is blown into it at a rate of 3 cubic inches a second?

*Each problem is worth 5 points.*