

HOMEWORK #3 (M427K FALL 2004)

1. SOLVE DIFFERENTIAL EQUATION

$$(x + y + 3)dx + (2x - 3y + 2)dy = 0$$

(hint: “kissing cousin” of the homogeneous equation. try substituting $x = \bar{x} + h$ and $y = \bar{y} + k$ to make it into a homogeneous equation. Then solve homogeneous equation as in Homework #2)