Quiz 7 — MA16020 — February 5, 2018

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1. (4 points) The following list of equations has one separable, one linear, one both, and one neither. Give the type of each.

   (a) $\dfrac{dy}{dx} = y + 1$

   (b) $3y' - xy^2 = x$

   (c) $-\dfrac{dy}{dx} = \sqrt{y} + x$

   (d) $t^2\, dy + ty\, dt = 6\, dt$

2. (6 points) Find the general solution to $\dfrac{dy}{dx} = y + x$.