toydere nundeen Opeyeni + Mechatronics Engineering 19/ENG05/058 Find the point of intersection of the following line on the circle. x-y-14=0 and sc2 +y2-6x +8y=0 4 = 5C-14 (>c2) + (xc-14)2 - 6 3c + 8(x-14) = 0 x2 + x2-28x +196 -6x +8x - 112=0 2x2 - 2600 +84 = 0 >c = - 5 + 1 be - +ac -26 + (C-262) - 4x2x84 2 42 = -26 + 2 0-76---26-2 20 = -6 00 20 -7 Roints of insection (-6,-20) onel (-7,-11) 11: 2x+y-10 = 0 and x2 +ye +4x-6y=0 X2 + (-2x +10)2 + 4x -6(-2x+10) =0 x2 + 4x2-+0x +100 + 4x +12x-60 =0 5x2 -24x + 40 = 0

y = 20-212 (Comp. (Com) + 200. $+^{2} + 25(3c-2)^{2} - 6x(3c-2) - 16 = 0$ $x^{2} + 28\left(\frac{2c^{2} - 4x + 4}{28}\right) - 6x^{2} + 12z - 16 = 0$ 1xx2 + 7c2 - 14xc +4 - 6>c + 12x -16 = 0x1 2002 +220 -12 = 0 P1-3- = 12 After factorisation on z = 2 and c = -3y = 2-2 = 0 and n = -3-2 = -5 = -1Points of intersection