4) H (Output) = (PolyzPo+Pr log_Pr) = - (-0.44+-053) Rem(A1) = \frac{1}{5}(0+1)\overline{1}{0} + \frac{1}{5}(1) = 4/5 = \frac{0.8}{5} $Rem(A_2) = \frac{2}{5} (0) + \frac{3}{5} (\frac{1}{3} | y_2 |_3 + \frac{2}{3} | y_1 |_3^2) = 0.551$ $Rem(A_3) = \frac{3}{5} (\frac{2}{3} | y_2 |_3 + \frac{1}{3} | y_2 |_3) + \frac{2}{5} (1) = 0.951$ 0.92 0.92 0.92Splitting on Az miximizes 1/0 information gain (MIX) information gain