New gray sweatshirt red Jeans york A 0 I. norm A= \12+12+12+02+02 = \13 \ norm B= J12+02+12+12+02 = 13 V north C = 112+02+02+02+02+12 = 12 2. Distance (A,B) = $\int (1-1)^2 + (1-0)^2 + (0-1)^2 + (0$ Distance (B,C) = $\int (1-1)^2 + (0-0)^2 + (0-0)^2 + (1-0)^2 + (1-0)^2 + (0-0)^2 = \sqrt{2}$ Pistance (A,C) = 1(1-1)2+ (1-0)2+ (0-0 3. $cos(A,B) = \frac{1 \times 1}{\sqrt{3} \times \sqrt{3}} = \frac{1}{3} \times \sqrt{3}$ $COS(A,C) = \frac{1 \times 1}{\sqrt{3} \times \sqrt{2}} = \sqrt{16} \sqrt{2}$ 2/2 $Cos(B,C) = \frac{1 \times 1}{13 \times 12} = \frac{1}{15} \sqrt{\frac{1}{15}}$ 4. distance of C&D would be 0. because they would be regarded as the same stock (vectorizer) documentation and cosine simularity would be 1. Cosine distance = 1- cosine similarity