



Jet Corrdinality It there are exactly n distinct elements in S where n is a nonnegative integer, we say that Sis finite. Otherwise it is infinite. The corrdinality of a finite sext A, Senoted by IA, is the number of elements of A. Examples: 1, | \$\infty | = 0 2 (21,2,33 = 3 3 18 03 = 1 y the set of integers is infinite. $\{0\} = 1 \quad \{0\} = 1$ Pewer Sets The set of all subset of a set A, denoted P(A), is called the Pewer set of A. Ex: IN A = 2a, 63 then P(A) = 20, 203, 263, 20,633 It a set has n elements, then the coordinality of its power set is $\{2a\} = \{20, 2a\}\}$ $\{20, 20\}\} = \{20, 20\}\} = \{20, 20\}\}$ $\{20, 6\} = \{20, 20\}\}$ $\{20, 6\} = \{20, 20\}\}$ $\{20, 6\} = \{20, 20\}\}$ Find A2 if a) A: \(\frac{2}{5}\), 1,3\(\frac{3}{5}\). \(b) A: \(\frac{5}{5}\)1,2,\(\alpha\),6\(\frac{5}{5}\) a) AXA = \(\frac{20}{1}, \frac{33}{33} \times \(\frac{20}{1}, \frac{33}{35} = \{\frac{20}{50}, \frac{3}{5}; \{\frac{20}{50}, \ 51,33; 23,03; 23,15; 33,73.

b) A x A = \(\frac{1}{2}, \alpha, \b\frac{1}{3} \times \frac{2}{1}, \alpha, \b\frac{1}{3} = \frac{2}{1}, 1\frac{1}{3}; \frac{2}{1}, 2\frac{2}{3}; \frac{2}{3} 1, \alpha\frac{2}{3}; \frac{2}{3} 1, \alpha\frac{2} {2, 13, {2, 23, {2, 03, {2, b3}; {2, 03, {3, 20, b3}; {20, 03, {20, b3 A $\mathcal{E}_{a,b,c,d,e,f}$ A $\mathcal{E}_{a,b,c,d,e,f}$ $\mathcal{E}_{a,b,c,d,e,f}$ $\mathcal{E}_{a,b,c,d,e,f}$ $\mathcal{E}_{a,b,c,d,e,f,e,f}$ $\mathcal{E}_{a,b,c,d,e,f,e,f}$