1. Suppose $A = \{0, \emptyset\}$ and $B = \{1, 2\}$. Write $A \times B$ by listing its elements between braces.

 $A \times B = \{(0,1), (0,2), (\phi,1), (\phi,2)\}$

2. Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A : |X| = 0\}$.

Write out B by listing its elements between braces.

$$B = \left[\frac{5}{9} \phi \right]$$

3. If $A = \{a, b, c\}$, then $\mathscr{P}(A) =$

P(A)= { \$, {a}, {b}, {c}, {a,b}, {a,c}, {a,b}, {a,c}}

Name: Richard

Quiz 2 ♡

MATH 211 January 24, 2023

1. Suppose $A = \{a, b, c\}$ and $B = \{0, 1\}$. Write $A \times B$ by listing its elements between braces

 $A \times B = \left\{ (a, 0), (b, 0), (c, 0), (a, 1), (b, 1), (c, 1) \right\}$

2. Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A : |X| = 2\}$.

Write out B by listing its elements between braces.

3. If $A = \{0, \emptyset\}$, then $\mathscr{P}(A) =$

1. Suppose $A = \{2,3\}$ and $B = \{0,\emptyset\}$. Write $A \times B$ by listing its elements between braces.

 $A \times B = \left[\left\{ (3,0), (2,\phi), (3,0), (3,\phi) \right\} \right]$

2. Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A : |X| \le 1\}$.

Write out B by listing its elements between braces.

3. If $B = \{2, 4, 6\}$, then $\mathscr{P}(B) =$

P(B) = { \$, {23, {43, {63, {2,43, {2,63, {4,63, {2,4,63}}}

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Quiz 2 \diamondsuit

MATH 211 January 24, 2023

1. Suppose $A = \{1, 2\}$ and $B = \{a, b, c\}$. Write $A \times B$ by listing its elements between braces.

 $A \times B = \left\{ (1,a), (1,b), (1,c), (2,a), (2,b), (2,c) \right\}$

2. Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A : |X| = 3\}$.

Write out B by listing its elements between braces.

 $B = \left\{ \{a,b,c\}, \{a,b,d\}, \{a,c,d\}, \{b,c,d\} \} \right\}$

3. If $A = \{\mathbb{Z}, \mathbb{N}\}$, then $\mathscr{P}(A) =$