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Worksheet 6 DBM 2033.

1(a) $A = \{1, 2, 3, 4, 6, 12\}$ ✓

(b) A is a set of factors of 12. $A = \{x : x \text{ is a factor of } 12\}$ ↑ this is by description.

For example, $1 \times 12 = 12$
$2 \times 6 = 12$
$3 \times 4 = 12$

← this is listing.

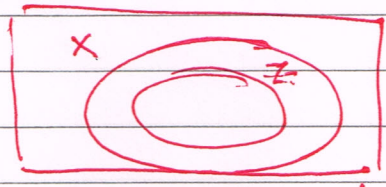
Thus, $A = \{1, 2, 3, 4, 6, 12\}$

2(a) $x \subset y$ is ~~true~~ False. ~~=~~ $X = \{3, 6, 9, 12, 15, 18, \ldots\}$
$Y = \{6, 12, 18, \ldots\}$

(b) $x \subset z$ is ~~true~~ False. $Z = \{9, 18, 27, \ldots\}$

(c) $z \subset y$ is false ✓

(d) $z \subset x$ is (false) True.



3. ~~C.~~ The set of factors of 7. D → because π is an irrational number.

4(a) $S = \{a, b, c, d, e\}$ has ~~32~~ proper subsets of (33) ✗ 31

(b) Set $S = \{a, b, c, d, e\}$ has 5 elements.

Therefore, the cardinal number of set $S = 5$.
So, it is denoted as $n(S) = 5$. ✓