

- y [2,3,5,7]
- A = Set(y)
- A
- A.cardinality()
- 8 in A
- 10 in A
- B = Set([8,6,17, 4,20, -2])
- B
- A.union(B)
- A.intersection(B)
- A.difference(B)
- B.difference(A)
- A.symmetric_difference(B)
- A = Set([1,2,3]); A
- powA = A.subsets(); powA
- pairsA = A.subsets(2); pairsA
- powA.list()
- pairsA.list()

Output:-

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In: Y [2,3,5,7]
Out: A Set(Y)
In: A
Out: A
In: A.cardinality()
Out: 5
In: 8 in A
Out: True
In: 10 in A
Out: False
In: B = Set([8,6,17, 4,20, -2])
Out: B
In: B
Out: {8, 6, 17, 4, 20, -2}
In: A.union(B)
Out: {1, 2, 3, 5, 7, 8, 6, 17, 20, -4, -2}
In: A.difference(B)
Out: {1, 2, 3}
In: B.difference(A)
Out: {8, 6, 17, 20, -4, -2}
In: A.symmetric_difference(B)
Out: {1, 2, 3, 8, 6, 17, 20, -4, -2}
In: A = Set([1,2,3])
Out: A
In: A
Out: {1, 2, 3}
In: powA = A.subsets();
Out: powA
In: powA
Out: subsets of {1, 2, 3}
In: pairsA = A.subsets(2);
Out: pairsA
In: pairsA
Out: subsets of {1, 2, 3} of size 2

```