1a. (a) True

(b) False

(c) True

(d) False

(e) True

1b. (a) True

(b) True

(c) False

(e) True

(f) True

1c. (b) {∅, {∅}} – Cardinality: 2

(c) {∅, {{∅}}, {∅}, {∅, {∅}} – Cardinality: 4

1d. (a) {-3, 0, 1, 4, 17, -12, -5, 1-, 4, 6}

(b) {1, 4}

(c) {-3, 1, 17}

(d) {-3, 0, 1, 4, 17 -12, -5, 1}

1e. (a) True

(b) False

(c) True

(e) False

(f) False

1f. (a) {aa, ab, ac, ad}

(b) {ab}

(c) {aa, ab, ac, ad}

(d) {ab}

1g.