

Obligatorisk Innlevering 01

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Oppgave 1.8

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|----------------------------------|--|
| (a) $x \in \{x\}$ sant | (e) $\{x\} \subseteq \{\{x\}\}$ usant |
| (b) $\{x\} \in \{x\}$ usant | (f) $\emptyset \in \{x\}$ usant |
| (c) $\{x\} \subseteq \{x\}$ sant | (g) $\emptyset \subseteq \{x\}$ sant |
| (d) $\{x\} \in \{\{x\}\}$ sant | (h) $\emptyset \subseteq \{\{x\}\}$ sant |

Oppgave 1.9

$$A = \{1, 3, 5, 7, 9\} \quad B = \{0, 1, 2, 3, 4\} \quad C = \{5, 6, 7, 8, 9\}$$

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| (a) $A \setminus B = \{5, 7, 9\}$ | (d) $C \setminus (A \cup B) = \{6, 8\}$ |
| (b) $B \setminus A = \{0, 2, 4\}$ | (e) $(A \setminus B) \setminus C = \emptyset$ |
| (c) $(A \cup B) = \{5, 7, 9\}$ | (f) $(B \cup C) \setminus A = \{0, 2, 4, 6, 8\}$ |

Oppgave 1.10

- (a) $\{1, 2, 3, 4\}$ har 16 delmengder
- (b) $\{1, 2, 3, 4, 5\}$ har 32 delmengder