

Worksheet 2

Due: Tuesday, January 27

Put full names of the group at the top. Pick one person to record who hasn't before. Star their name.

1. For each of the following, let G be the given graph. Draw a picture representing G .

(a) $V(G) = \{a, b, c, d, e\}$,
 $E(G) = \{\{a, b\}, \{a, c\}, \{c, d\}, \{c, e\}\}$

(b) $V(G) = \{f, g, h, i, j, k\}$,
 $E(G) = \{\{h\}, \{g, j\}, \{f, i\}, \{i, h\}, \{i, f\}\}$

2. We think of \mathbb{R}^2 as the coordinate plane. Graph the following sets.

$$\{(x, y) \in \mathbb{R}^2 : 1 \leq x \leq 2 \text{ and } 2 \leq y \leq 4\}$$

$$\{(x, y) \in \mathbb{R}^2 : x \in \mathbb{Z}\}$$

$$\{(x, y) \in \mathbb{R}^2 : y - x \in \mathbb{Z}\}$$