

"Berlin" -- Graphing Inequalities, Circles, Parabolas

Given:

$$A = \{(x, y) \mid y < 0\}$$

$$E = \{(x, y) \mid y \geq 5\}$$

$$B = \{(x, y) \mid y \leq x^2 - 3\}$$

$$F = \{(x, y) \mid 2y + x \geq 12\}$$

$$C = \{(x, y) \mid x^2 + y^2 = 49\}$$

$$M = \{(x, y) \mid y \geq 0\}$$

$$D = \{(x, y) \mid x^2 + y^2 < 49\}$$

$$G = \{(x, y) \mid (x-3)^2 + (y-2)^2 = 1\}$$

$$H = \{(x, y) \mid (x+3)^2 + (y-2)^2 = 1\}$$

Graph each of the following on this single coordinate axes:

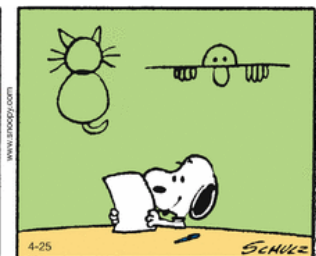
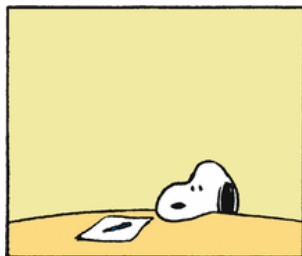
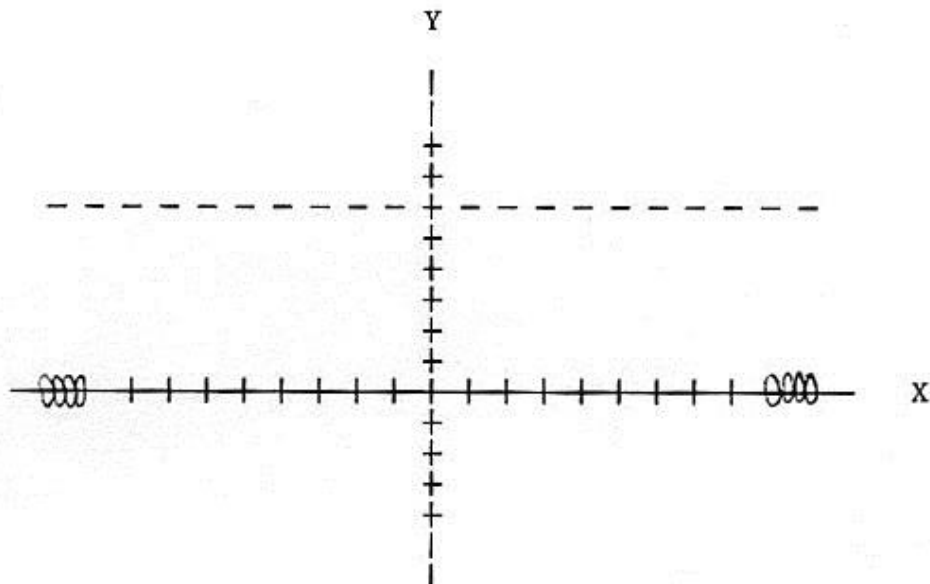
$$A \cap B$$

$$C \cap M$$

$$D \cap E$$

$$D \cap F$$

$$G \cup H$$



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SCHULZ