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Kex Name:__

You must show your work to get full credit.

1. Use the roster method to specify the elements in the following set and then write a sentence in English describing the set.

$$S = \{x \in \mathbb{Z} : x^2 < 2\}.$$

(a)

(b) An English sentence describing the set is:

The set of integers whose square is less

2. Use set builder notation to describe the following set

$$S = \{1, 4, 9, 16, 25, ...\}.$$

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3. Use set builder notation to describe the set A of all integers strictly between 17 and 42. $A = \underbrace{2 \times 2 \times 2 \times 42}_{17}$