

1. Evaluate each expression for the values provided.

(a) $2x^2 - 4x + 7$, $x = 3$

(b) $3x^2 - 4x + 7$, $x = -2$

(c) $3x - 2(x - y)$, $x = 5$, $y = -4$

2. Use set-builder notation to write each set.

(a) The set of all real numbers less than or equal to 3.

(b) The set of all real numbers greater than -2.

(c) The set of all real numbers between -5 and 2, including both endpoints.

(d) The set of all real numbers between -5 and 2, excluding both endpoints.

3. Use set-builder notation to write the set represented by each number line. The symbol ● means that the endpoint is included and the symbol ○ means that the endpoint is not included.

