Writing Linear Inequalities from Graphs: Number Lines and Half-Planes

Original tasks 1, 2 / independent work

Task 1

An open dot is at -3 on a number line, with shading to the right. Write the inequality.

Task 2

A closed dot is at 5 on a number line, with shading to the left. Write the inequality.

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Original tasks 3, 4 / independent work

Task 3

A dashed boundary line has equation $y = 3x - 2$. The region above the line is shaded. Write the inequality.

Task 4

A solid vertical boundary line is at $x = 4$, and the region to the left of the line is shaded. Write the inequality.