

- 1 (a) Sketch the graph of $y = |4x - 2|$.

[1]

- (b) Solve the inequality $1 + 3x < |4x - 2|$.

[4]

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- 1 (a) Sketch the graph of $y = |x - 2|$.

[1]

- (b) Solve the inequality $|x - 2| < 3x - 4$.

[3]

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- 1 (a) Sketch the graph of $y = |2x + 1|$.

[1]

- (b) Solve the inequality $3x + 5 < |2x + 1|$.

[3]

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- 2 (a) Sketch the graph of $y = |2x - 3|$.

[1]

- (b) Solve the inequality $|2x - 3| < 3x + 2$.

[3]

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- 2 (a) Sketch the graph of $y = |2x + 3|$.

[1]

- (b) Solve the inequality $3x + 8 > |2x + 3|$.

[3]

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- 1** Solve the inequality $|5x - 3| < 2|3x - 7|$.

[4]

[illegible]

[4]

This image shows a blank sheet of white paper designed for handwriting practice. It features multiple sets of horizontal dotted lines spaced evenly down the page. A large, light gray watermark is oriented diagonally from the bottom-left towards the top-right, displaying the text "pastpaperpenquins.com". The watermark is semi-transparent, allowing the ruled lines to remain visible beneath it. There are no other markings, text, or illustrations on the page.

1 Solve the inequality $|2x - 1| > 3|x + 2|$.

[4]

[illegible]

[4]

This image shows a blank sheet of white paper designed for handwriting practice. It features approximately 20 horizontal dotted lines spaced evenly down the page. A large, light gray watermark is oriented diagonally from the bottom-left towards the top-right, displaying the text "pastpaperpenquins.com". The watermark is semi-transparent, allowing the underlying ruled lines to remain visible. There are no margins, text, or other markings on the page.

1 Solve the inequality $|2x + 3| > 3|x + 2|$.

[4]

[illegible]

1 Solve the inequality $2 - 5x > 2|x - 3|$.

[4]

This image shows a full page of primary-ruled paper. It features multiple sets of horizontal dotted lines spaced evenly down the page, providing a guide for handwriting practice. A large, light gray watermark is oriented diagonally from the bottom left towards the top right, displaying the text "pastpaperbenjamin.com". The background is white, and there are no other markings or text present.

- 1 (a) Sketch the graph of $y = |x - 2a|$, where a is a positive constant.

[1]

- (b) Solve the inequality $2x - 3a < |x - 2a|$.

[2]

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- [4]

[illegible]

- Find, in terms of a , the set of values of x satisfying the inequality

$$2|3x + a| < |2x + 3a|,$$

where a is a positive constant.

where a is a positive constant. [4]

[illegible]

- 1** Find the set of values of x satisfying the inequality $|2^{x+1} - 2| < 0.5$, giving your answer to 3 significant figures. [4]

[illegible]

- [illegible]