

Work Sheet: lines and angles

Problem 1

- a) Sketch the graph of the line $f(x) = \frac{1}{4}x - 1$.
b) Work out its gradient angle.

Problem 2

- a) Sketch the graph of the line $f(x) = -\frac{2}{3}x + 2$.
b) Work out its gradient angle.

Problem 3

- a) Draw the graphs of the following linear functions:
 $f(x) = x + 4$ and $g(x) = -\frac{1}{5}x + 5$
b) Calculate the acute angle between the two lines.

Problem 4

- a) Draw the graphs of the following linear functions:
 $f(x) = -x + 7$ and $g(x) = -\frac{1}{2}x + 5$
b) Calculate the acute angle between the two lines.

Problem 5

- a) Draw the graphs of the following linear functions:
 $f(x) = x + 7$ and $g(x) = \frac{1}{2}x + 5$
b) Calculate the acute angle between the two lines.