

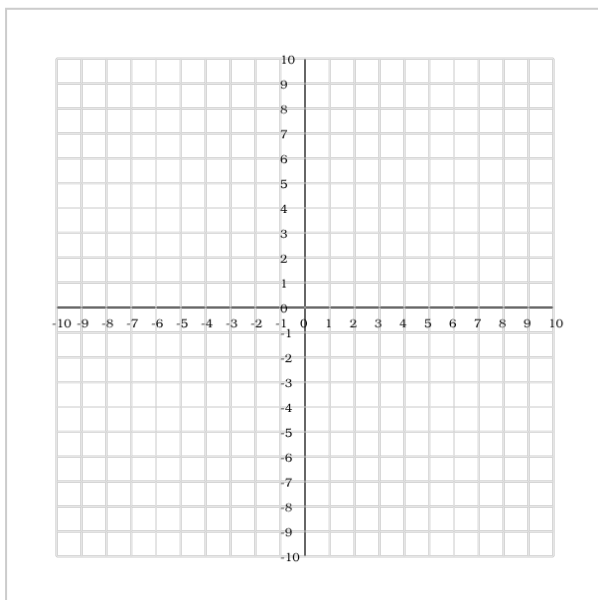
PLOTTING LINEAR GRAPHS

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

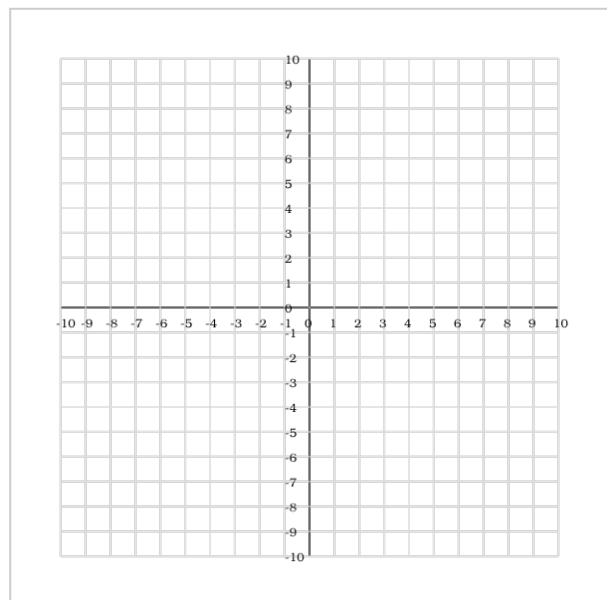
1.

Plot the graph of $y = 2x + 1$



2.

Plot the graph of $y = -x + 3$

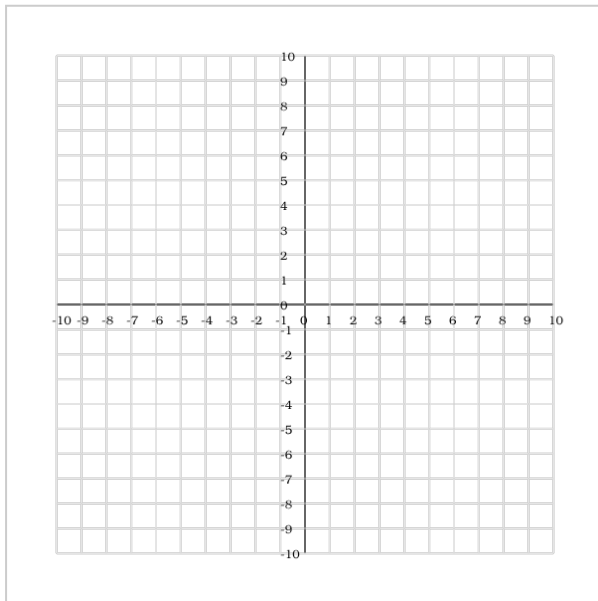


| Line through (0,1) with gradient 2

| Line through (0,3) with gradient -1

3.

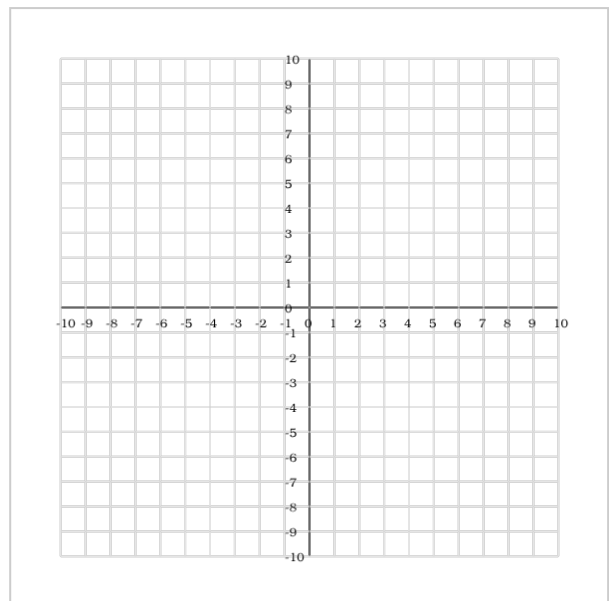
Plot the graph of $y = 0.5x - 2$



Line through (0,-2) with gradient 0.5

4.

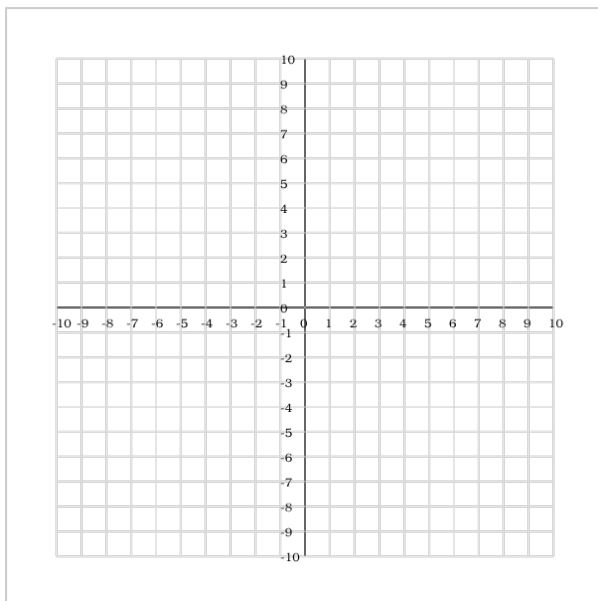
Plot the graph of $y = -2x + 4$



Line through (0,4) with gradient -2

5.

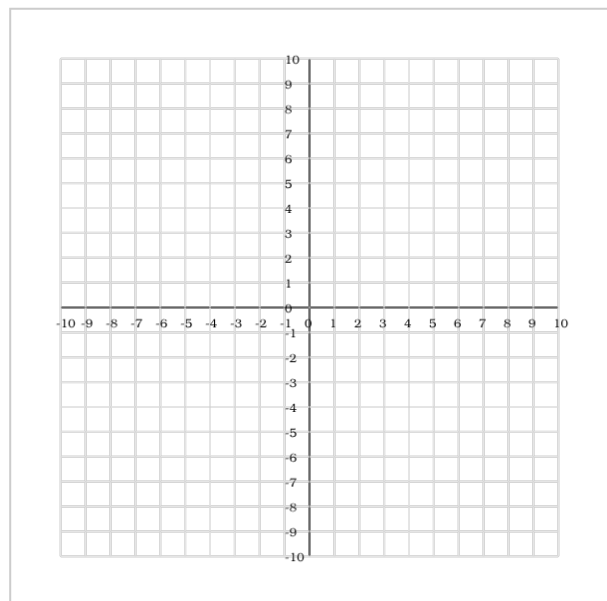
Plot the graph of $y = 3x$



Line through (0,0) with gradient 3

6.

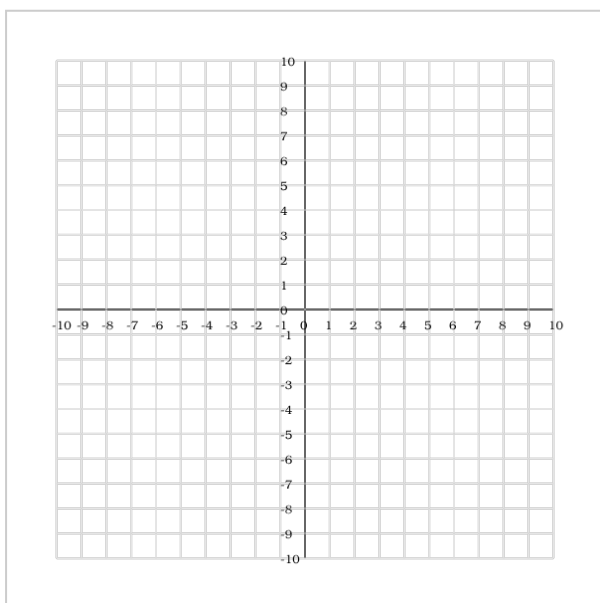
Plot the graph of $y = -0.5x + 1$



Line through (0,1) with gradient -0.5

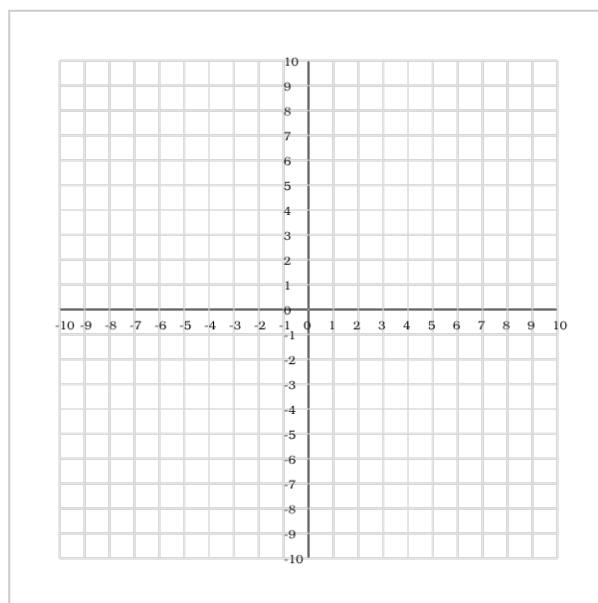
7.

Plot the graph of $y = 4x - 3$



8.

Plot the graph of $y = -3x + 2$

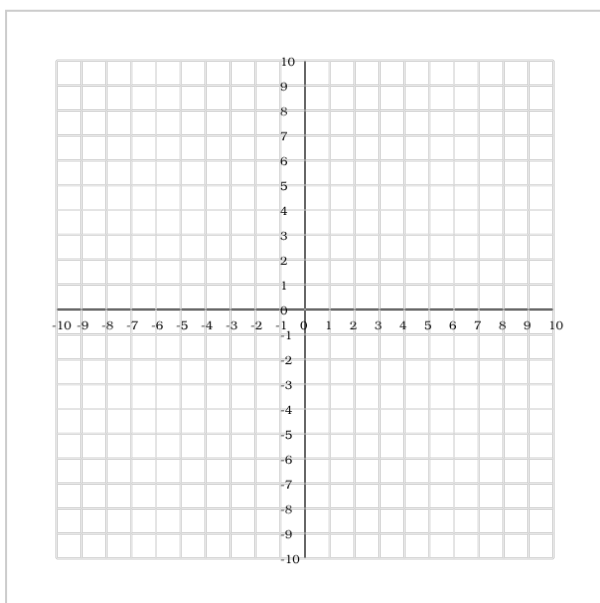


Line through $(0, -3)$ with gradient 4

Line through $(0, 2)$ with gradient -3

9.

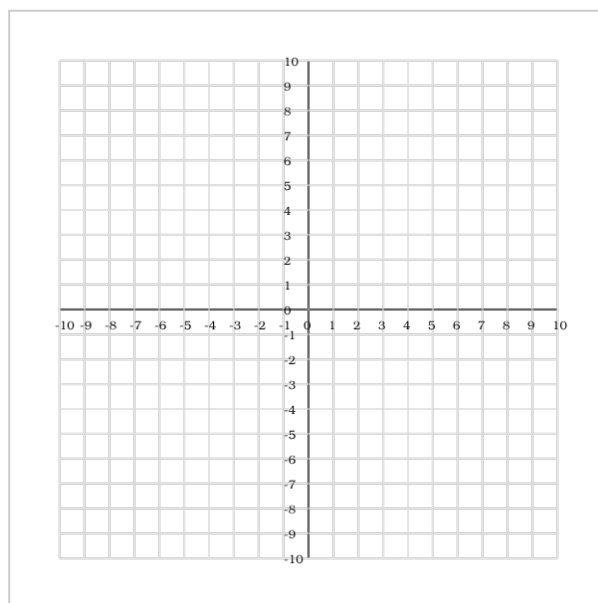
Plot the graph of $y = 1.5x - 1$



Line through (0,-1) with gradient 1.5

10.

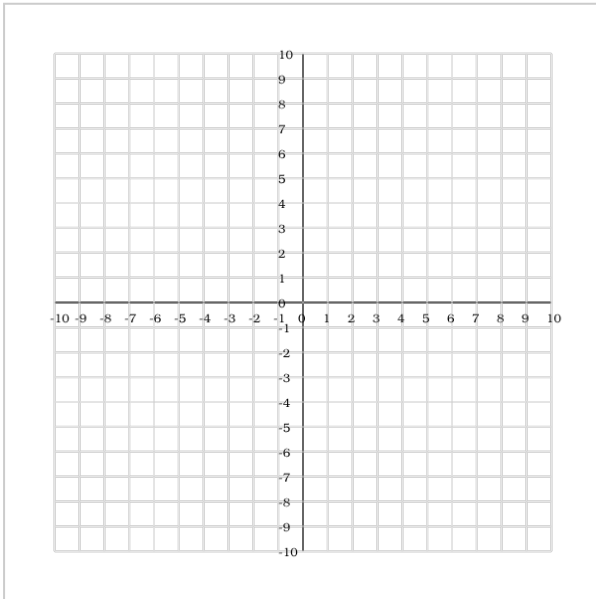
Plot the graph of $y = -4x - 2$



Line through (0,-2) with gradient -4

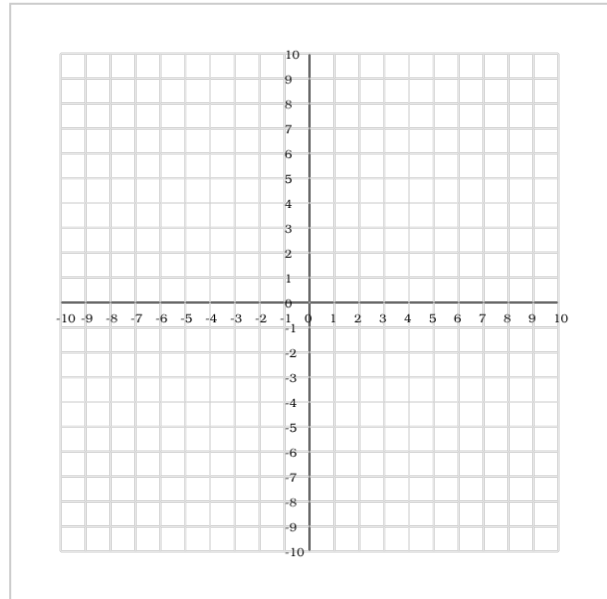
11.

Plot the graph of $y = 2.5x + 0.5$



12.

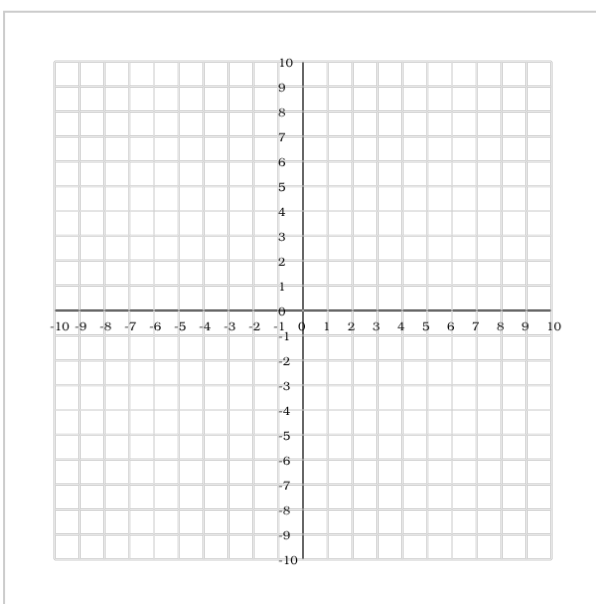
Plot the graph of $y = -1.5x + 3.5$



Line through (0,0.5) with gradient
2.5

13.

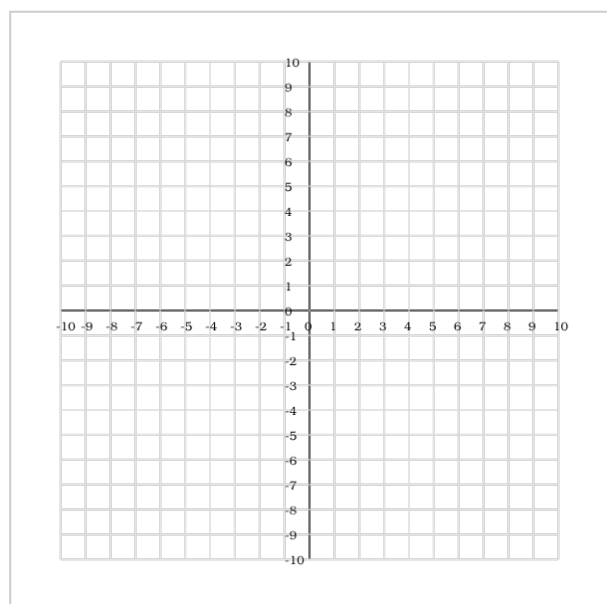
Plot the graph of $y = 0.25x - 1.5$



Line through (0,3.5) with gradient
-1.5

14.

Plot the graph of $y = -0.75x + 2.25$

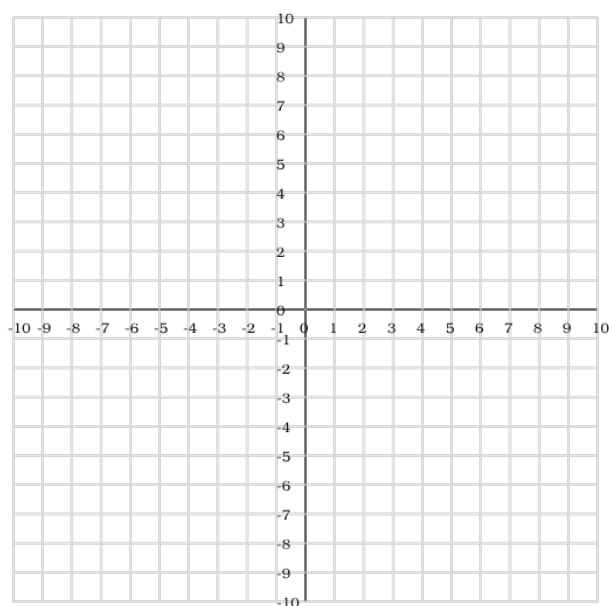


MASTER QUESTIONS



M1.

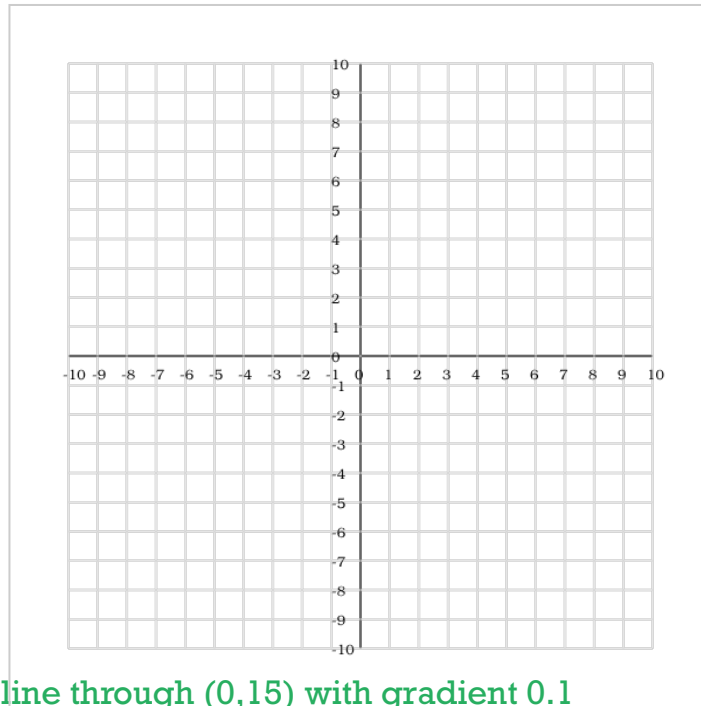
A taxi charges a £3 fixed fee plus £2 per mile. Write and plot the cost equation.



$y = 2x + 3$, line through (0,3) with gradient 2

M2.

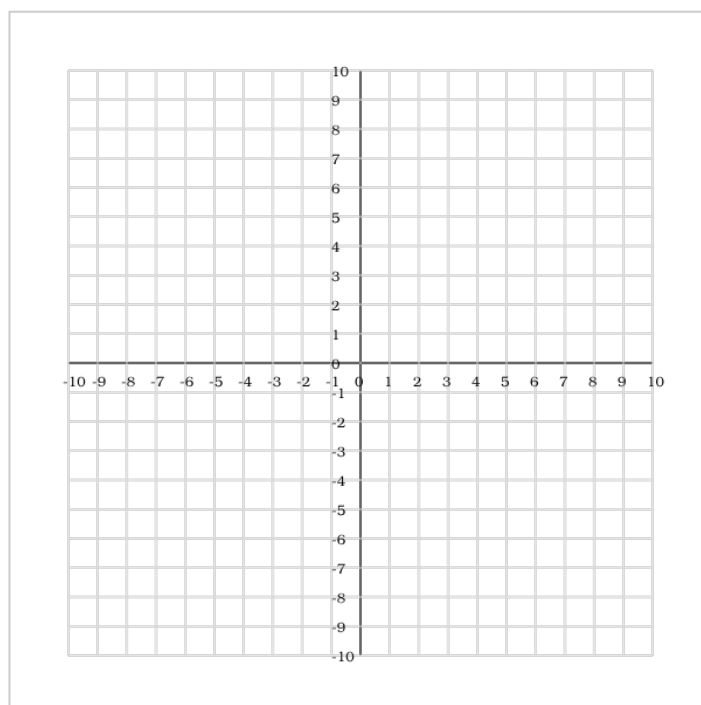
A phone plan costs £15 per month plus 10p per minute. Plot the monthly cost graph.



$y = 0.1x + 15$, line through (0,15) with gradient 0.1

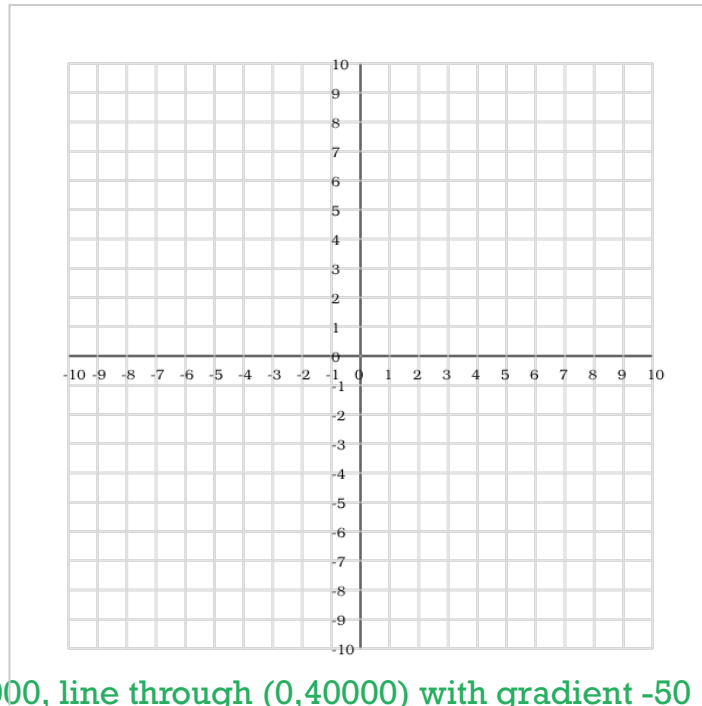
M3.

A car depreciates by £2000 per year from an initial value of £12000. Plot the value over time.



M4.

A swimming pool loses 50 litres per hour from 40000 litres. Plot the water volume over time.



$y = -50x + 40000$, line through (0,40000) with gradient -50

M5.

A candle burns at 2cm per hour from 20cm height. Plot the height against time.

