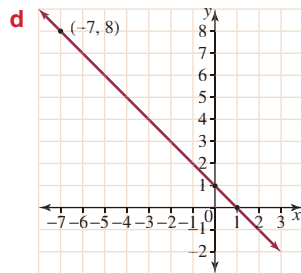
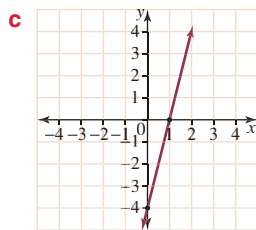
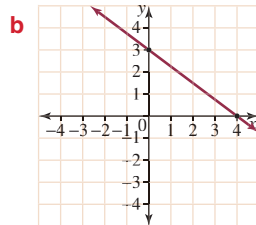
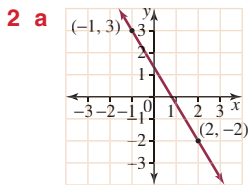
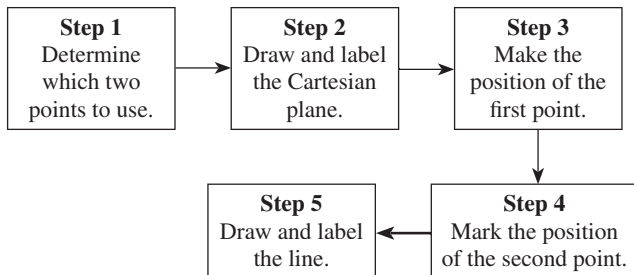


EXERCISE 3F

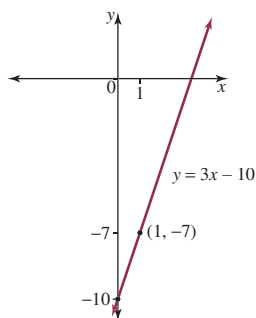
1 The difference between plotting a graph and sketching a graph is that a sketch is not necessarily drawn to scale and the axes scale is not shown.



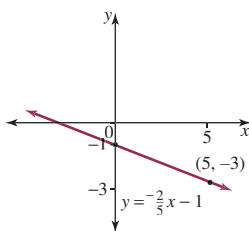
3



4 a

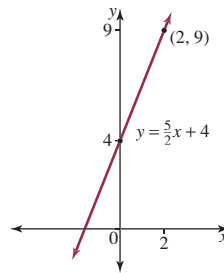


b

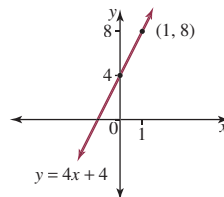


5 c

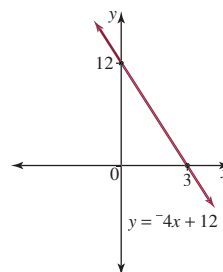
6



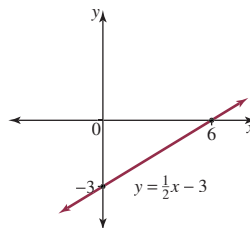
7



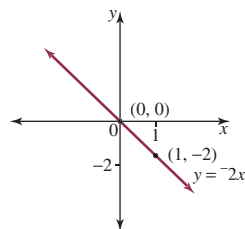
8 a



b



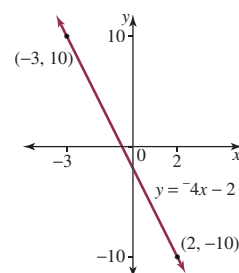
9



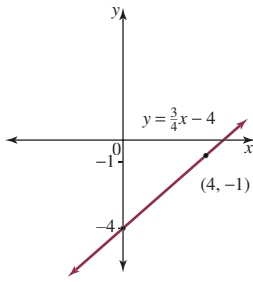
10 a $y = 10$

b $y = -10$

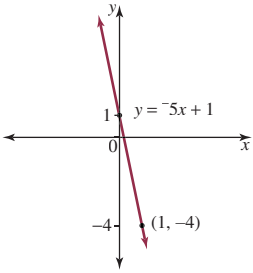
c



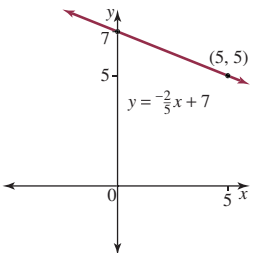
11 a



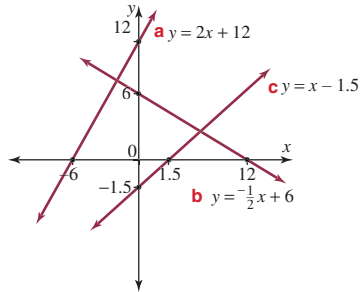
b



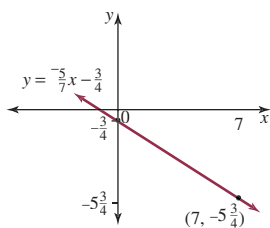
c



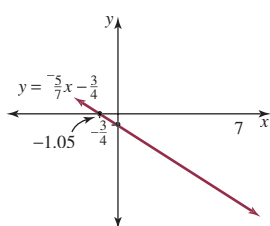
12



13 a i



ii



iii Answers will vary.

b Answers will vary.

Going further

C

Extension

1 $y = 6x + 12$

2 $y = 6x - 1$

3 $y = 20x - 65$

EXERCISE 3G

1 A CAS calculator can trace points on a line and find the x - and y -intercepts.

2 a i -15 ii -5 b i 6 ii 2 c i 6 ii 7

d i -64 ii $\frac{7}{2}$ e i 1.1 ii 1 f i -4 ii 5.5

g i 3.5 ii 2 h i 12.5 ii 5 i i -337.5 ii -12

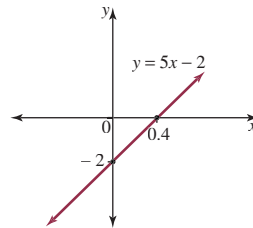
3 a $y = \frac{-4}{5}x + 4$ b $y = 3x - 6$ c $y = 4x + 12$

d $y = \frac{15}{4}x - 12$ e $y = \frac{-4}{15}x - 3.2$ f $y = -x + 6$

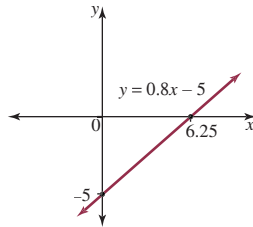
g $y = 2.2x + 0.5$ h $y = -2.5x + 95$

i $y = 1.79x + 1.79$

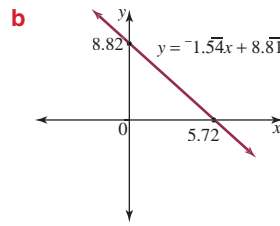
4 a



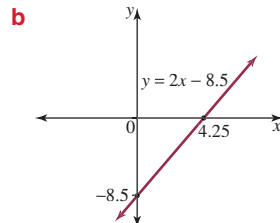
b



5 a $y = -1.54x + 8.81$



6 a $y = 2x - 8.5$



c $y = 7.5$

d $x = 10.25$