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# *Simlutaenous Equations*

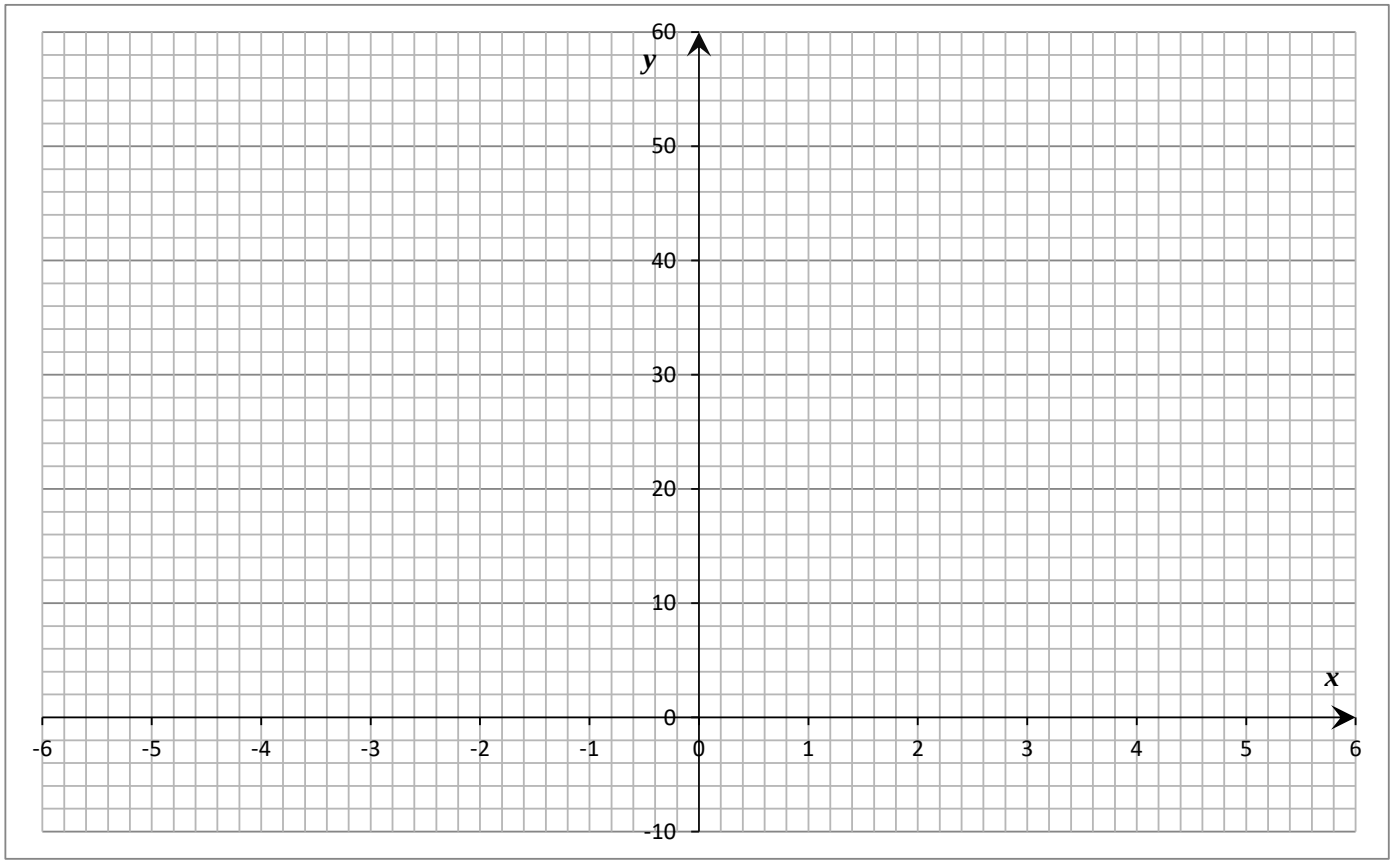
## *Quadratic and Linear*

### *An Introduction*

**1** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 5x + 4 = 0$$

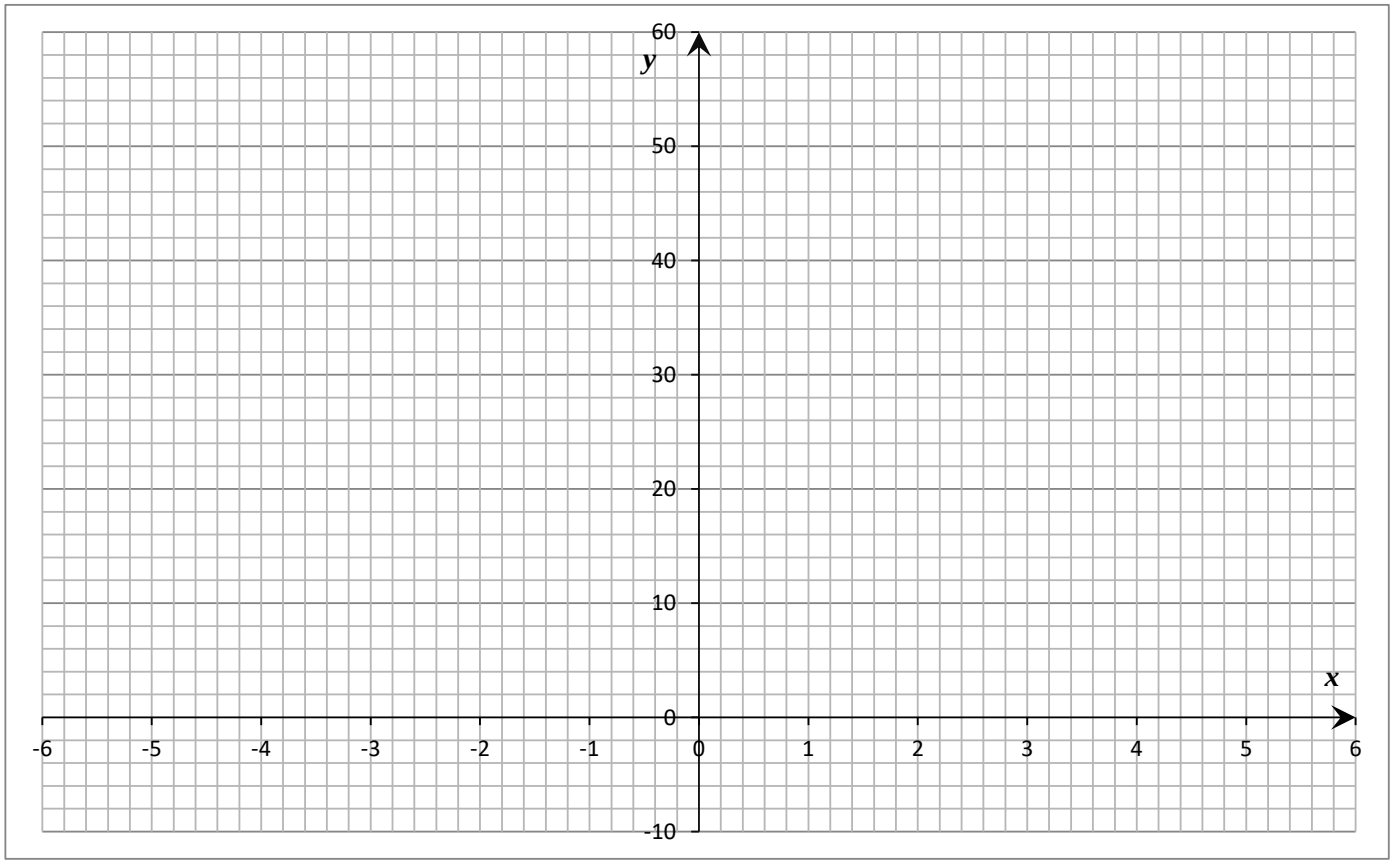
$$y = 2x + 14$$



**2** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 6x + 8 = 0$$

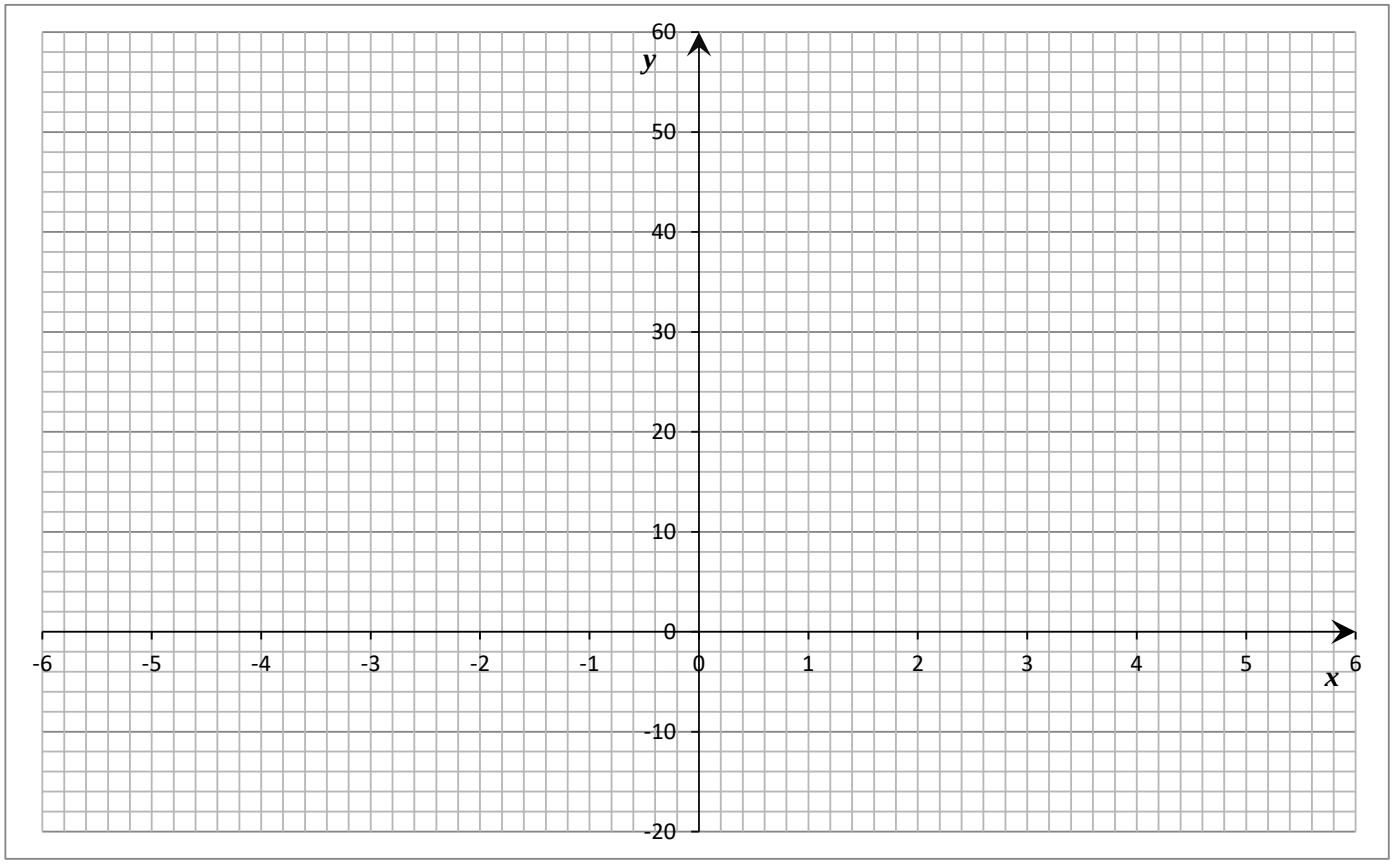
$$y = 3x + 20$$



***3*** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 4x + 3 = 0$$

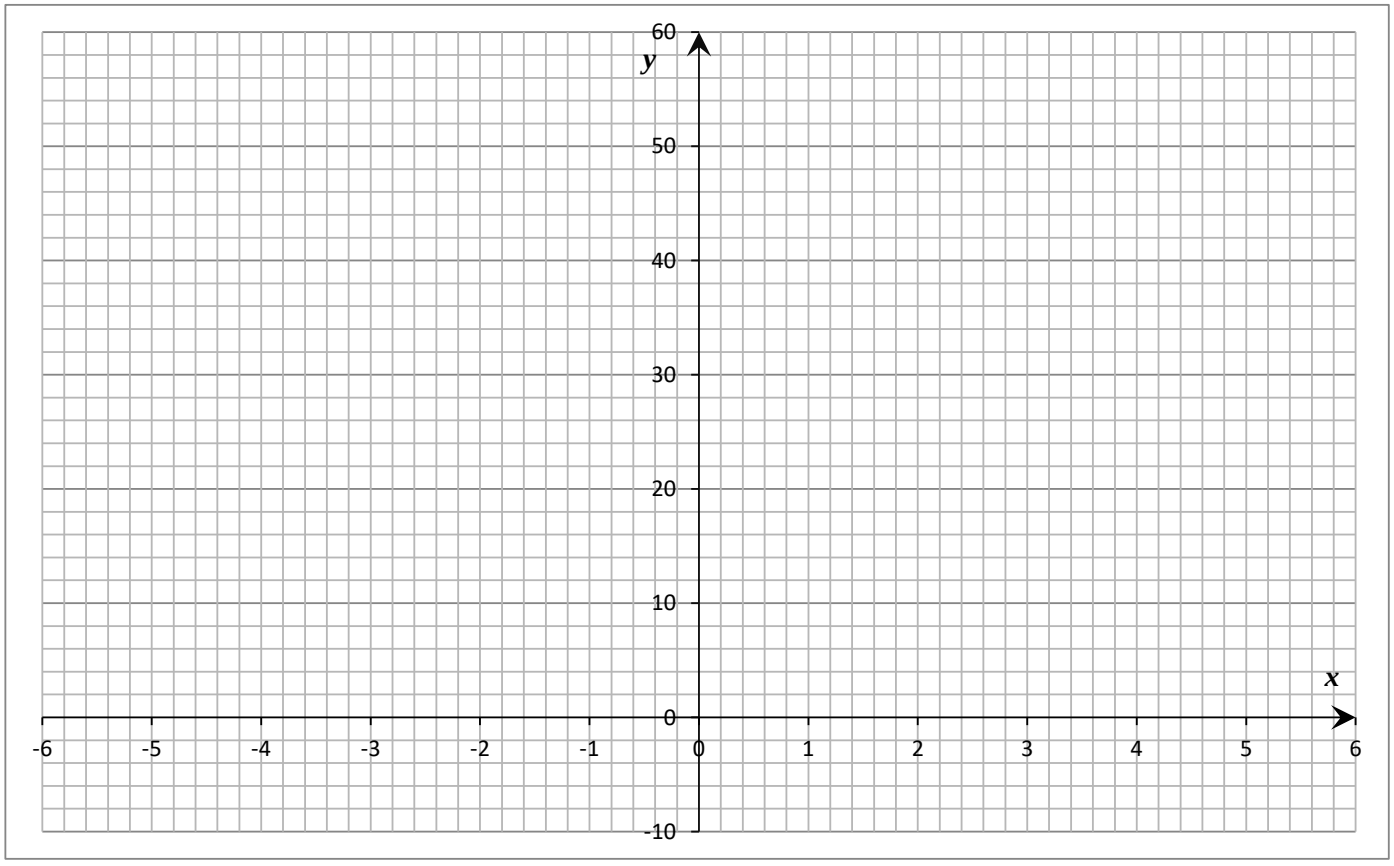
$$y = 3x + 9$$



**4** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 5x + 4 = 0$$

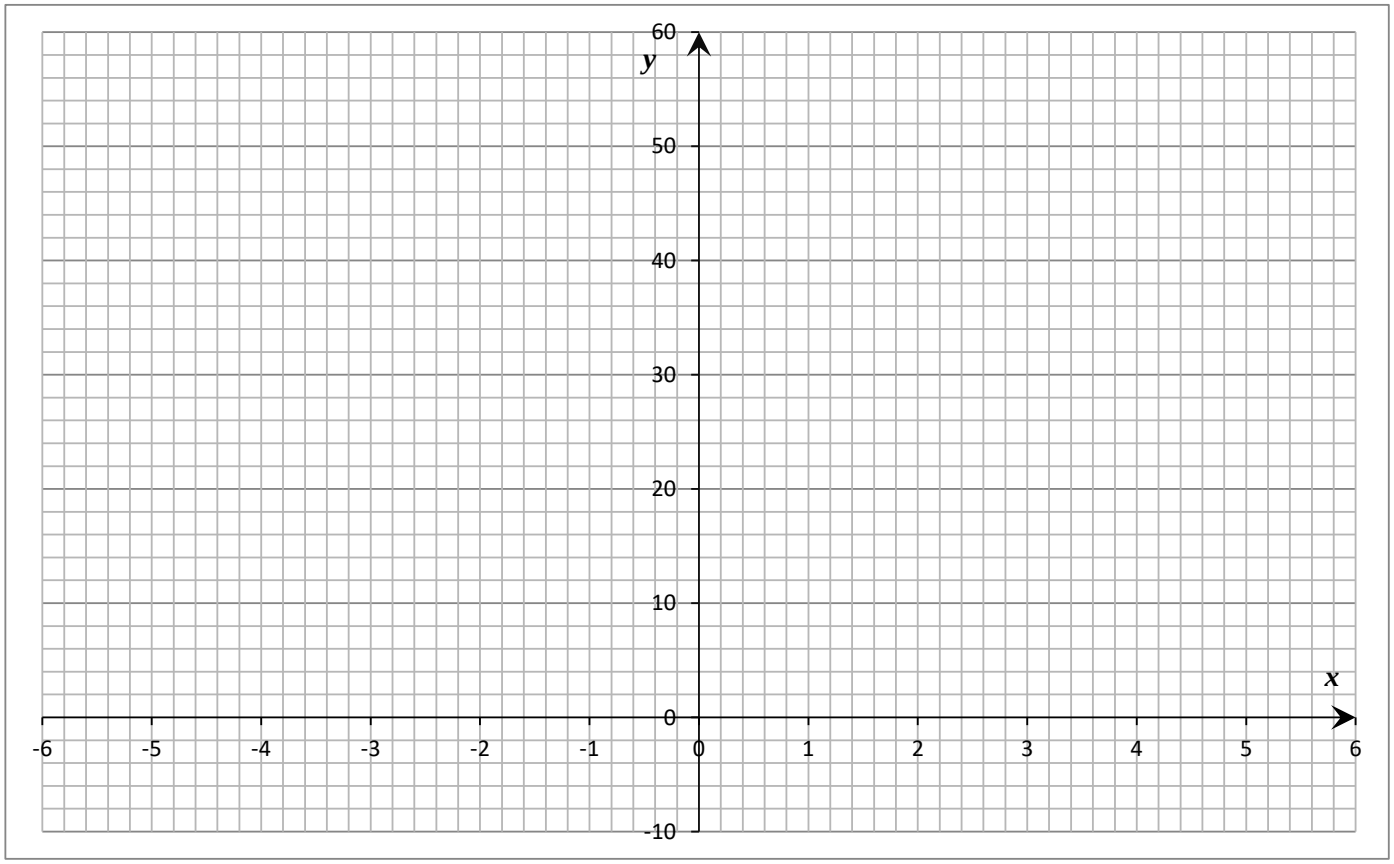
$$y = 2x + 11$$



***5*** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 3x - 4 = 0$$

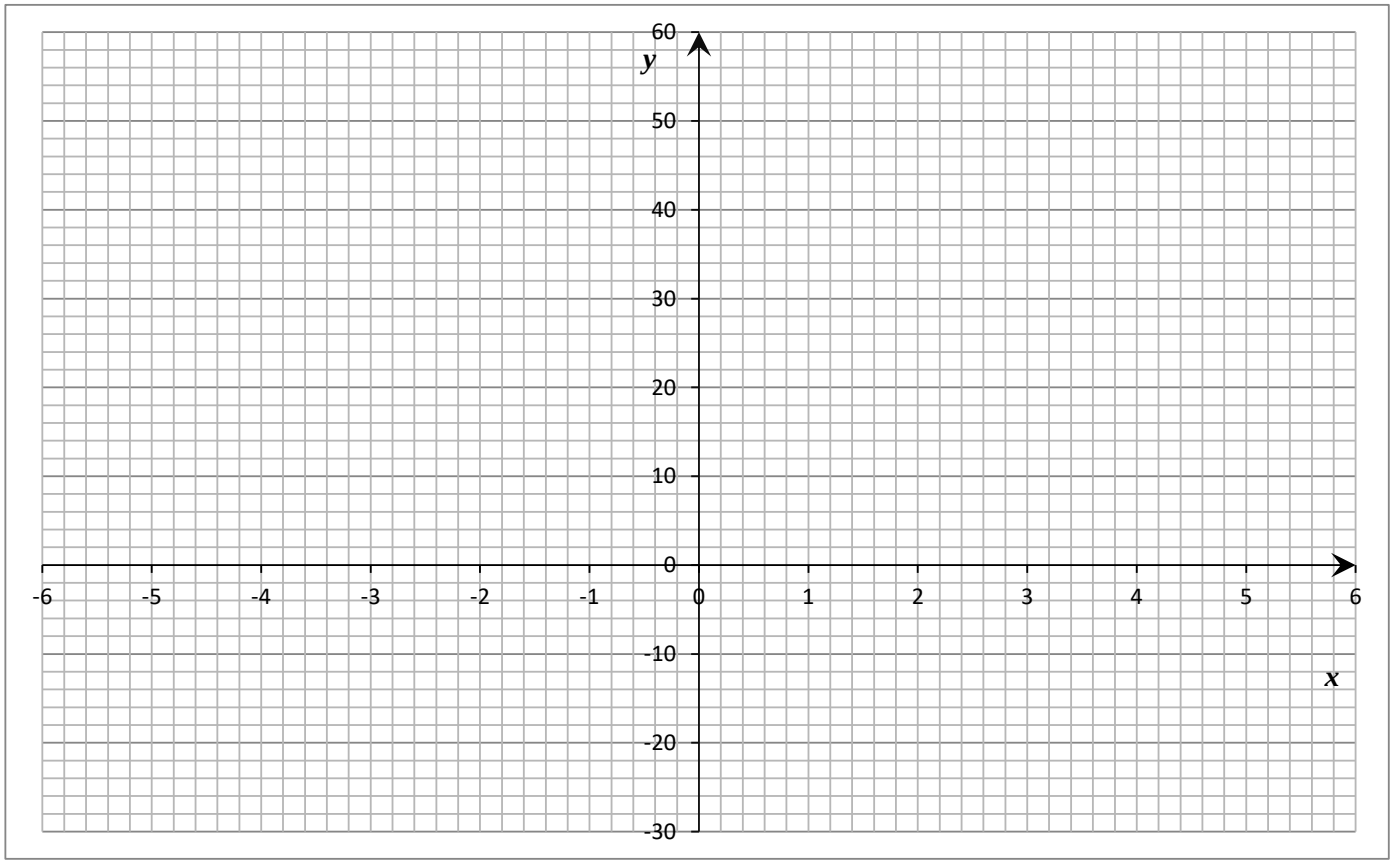
$$y = 2x + 8$$



**6** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 2x - 3 = 0$$

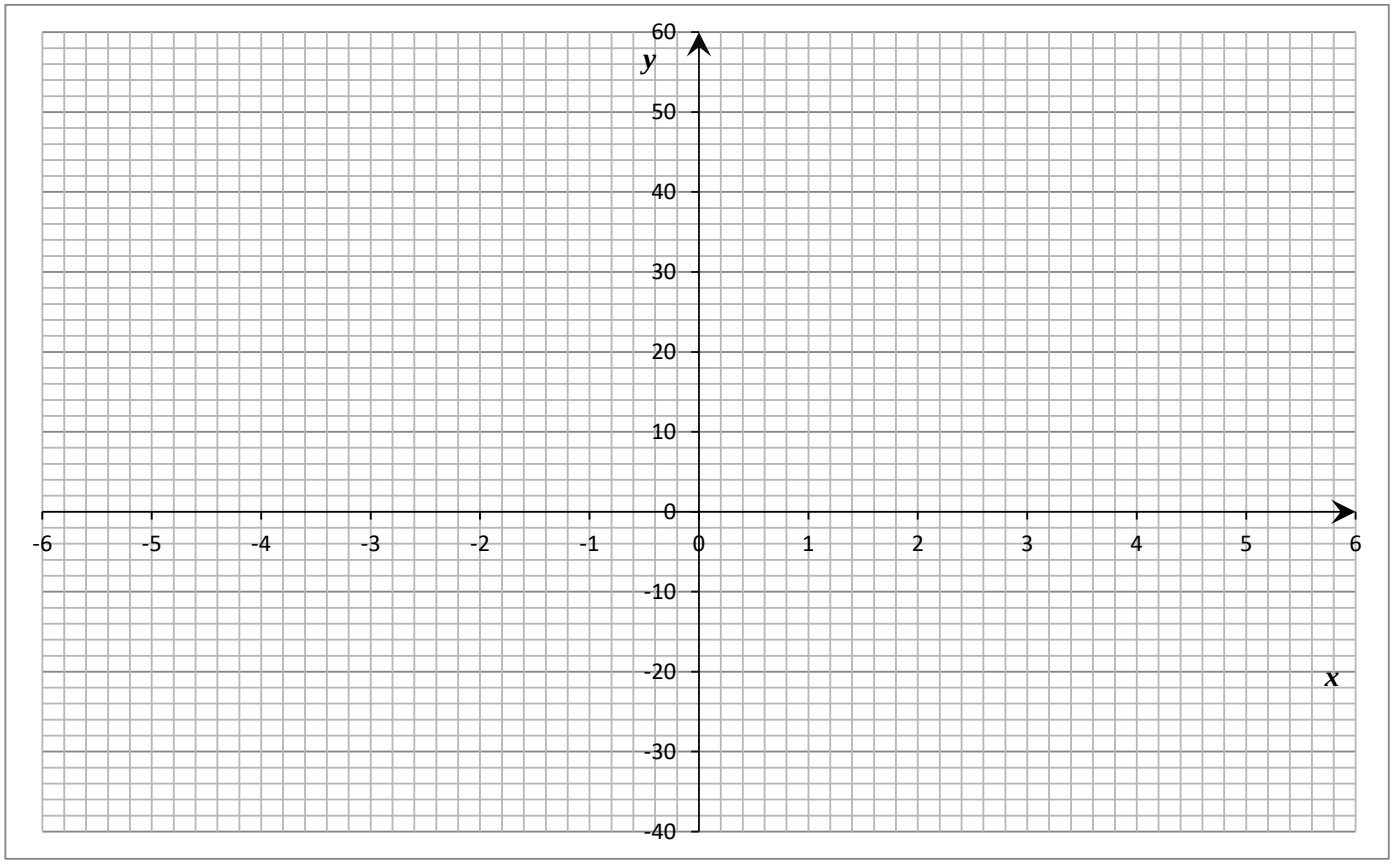
$$y = 4x + 6$$



*7* *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + 2x - 12 = 0$$

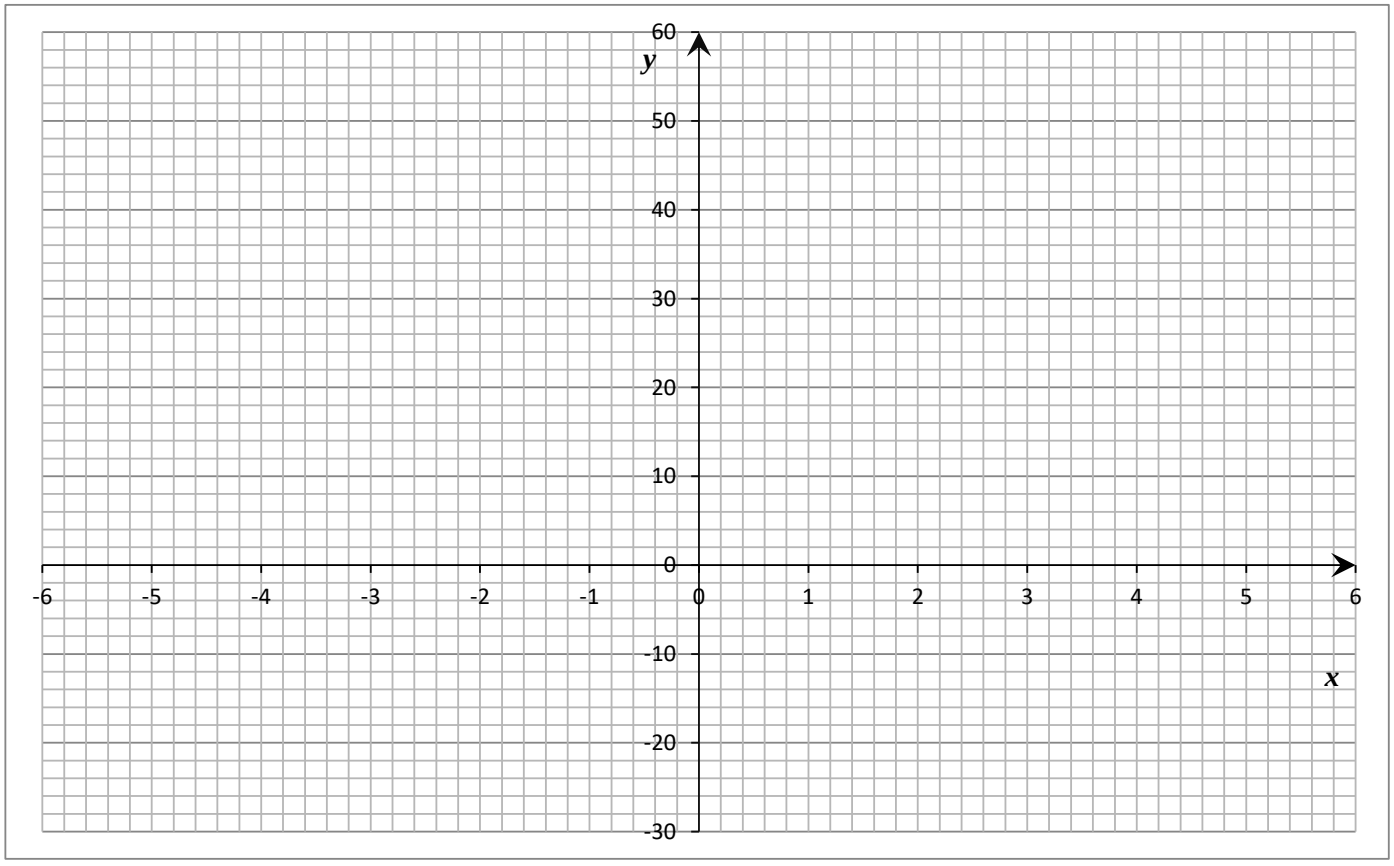
$$y = 4x - 4$$



**8** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + x - 20 = 0$$

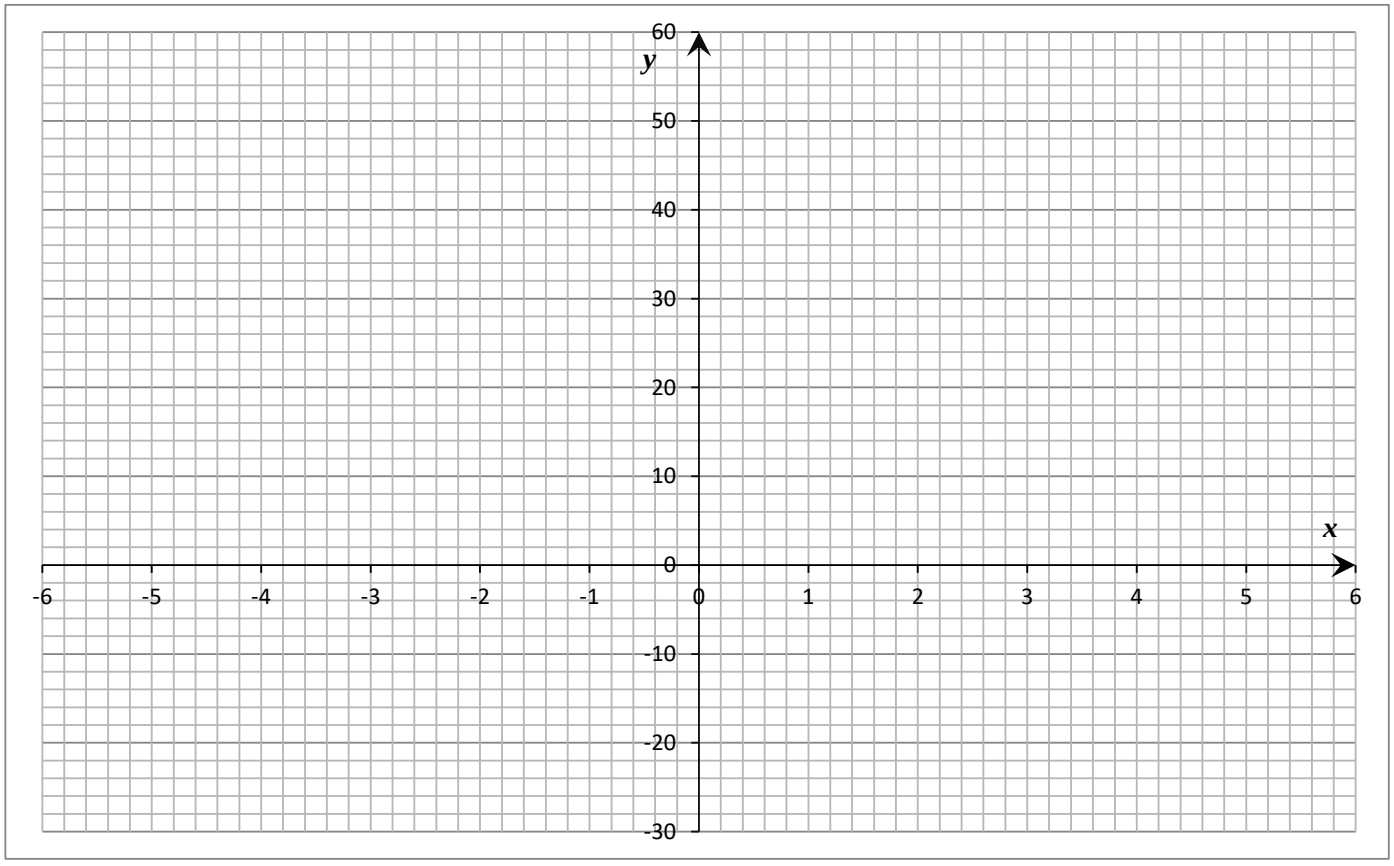
$$y = 3x - 5$$



**9** *Solve alegracially and sketch the graphs of both equations to check your answers*

$$x^2 + x - 6 = 0$$

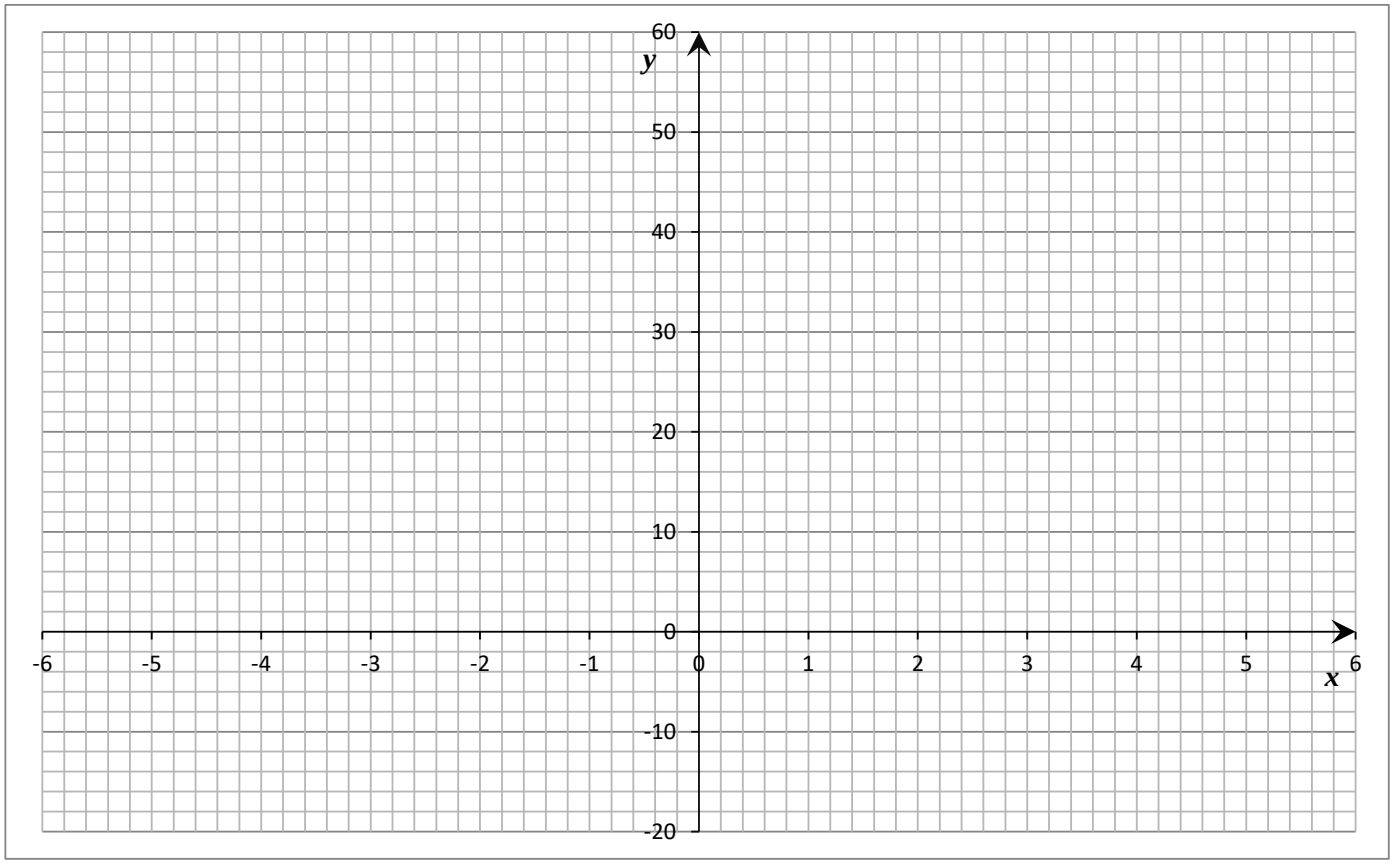
$$y = -3x - 4$$



***10*** *Solve alegracially and sketch the graphs of both equations to check your answers*

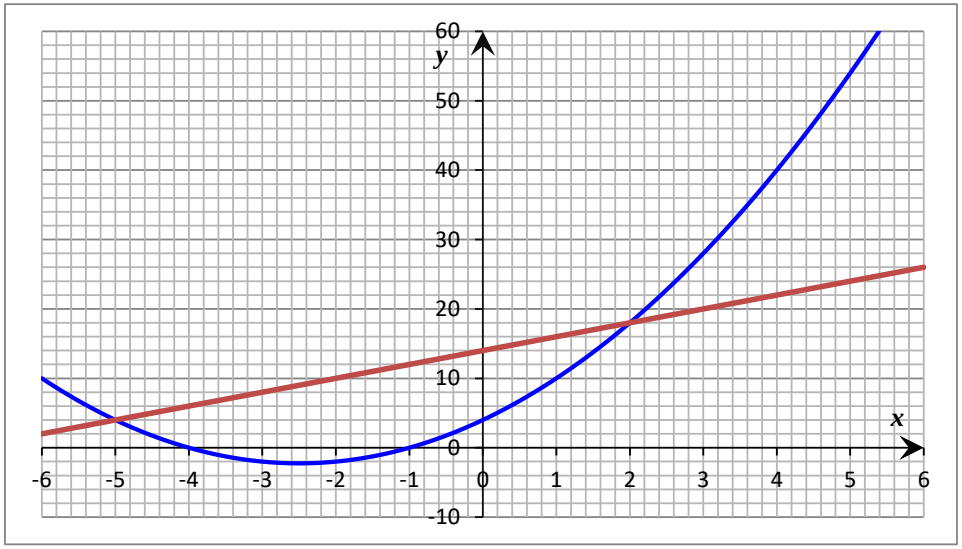
$$x^2 + 3x + 2 = 0$$

$$y = -2x + 4$$



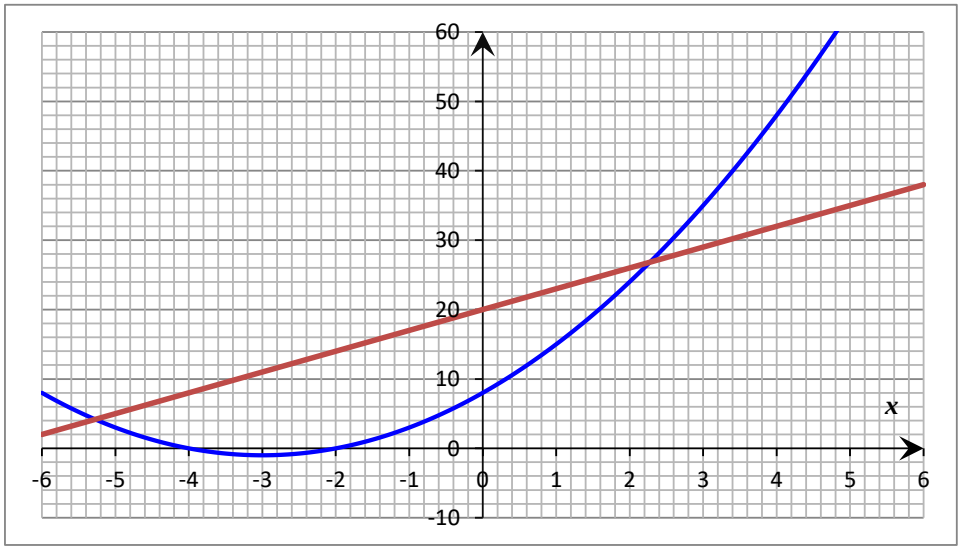
*Answers*

***1***



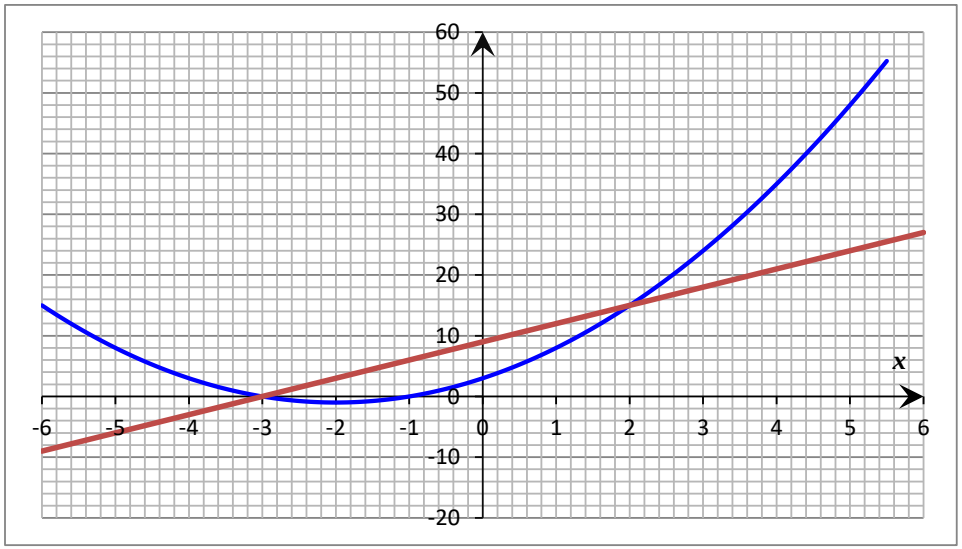

( 2 , 18 ) ( -5 , 4 )

***2***



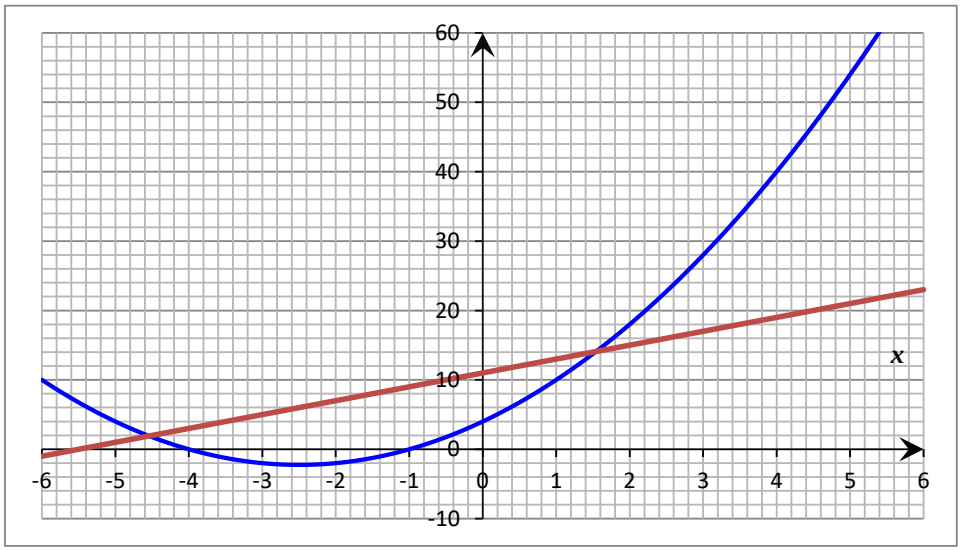

( 2.3 , 26.8 ) ( -5.3 , 4.2 )

***3***



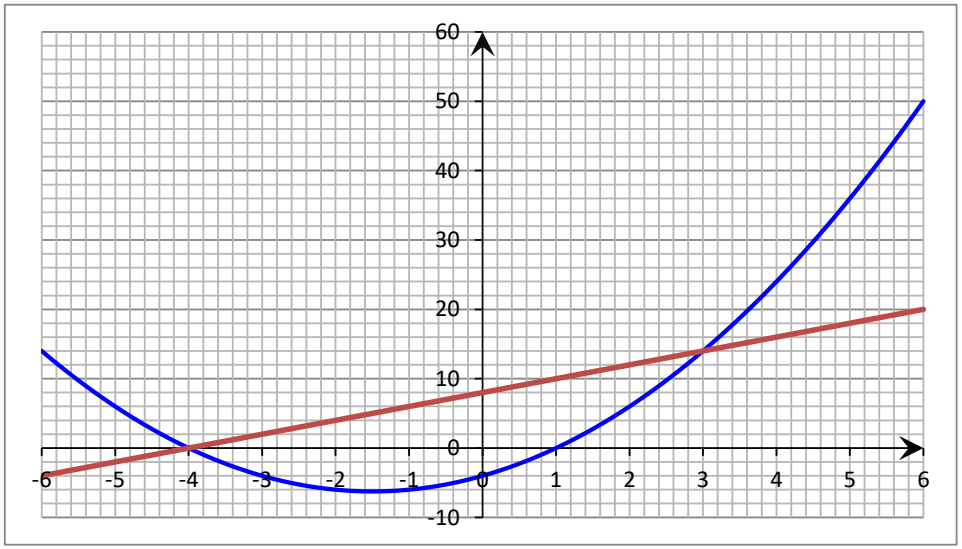

( 2 , 15 ) ( -3 , 0 )

***4***



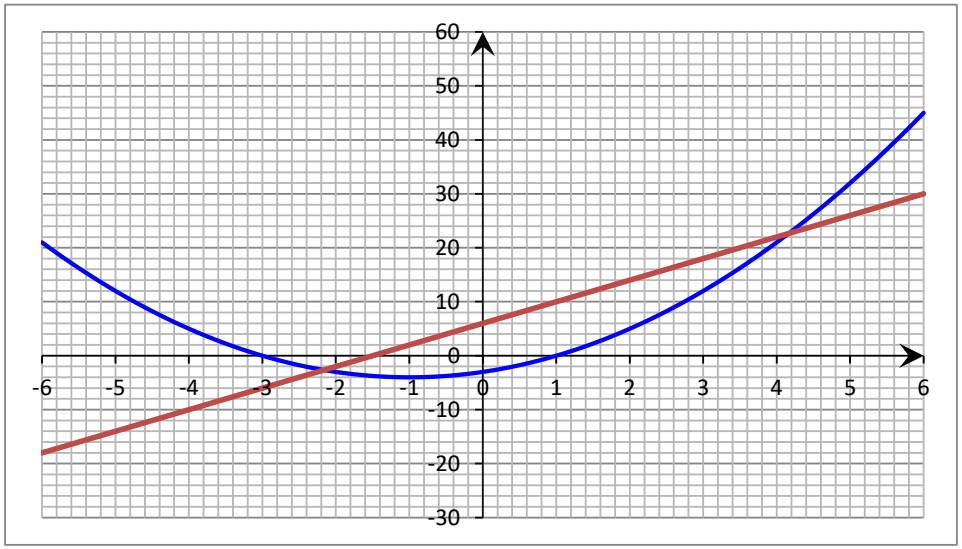

( 1.5 , 14.1 ) ( -4.5 , 1.9 )

***5***



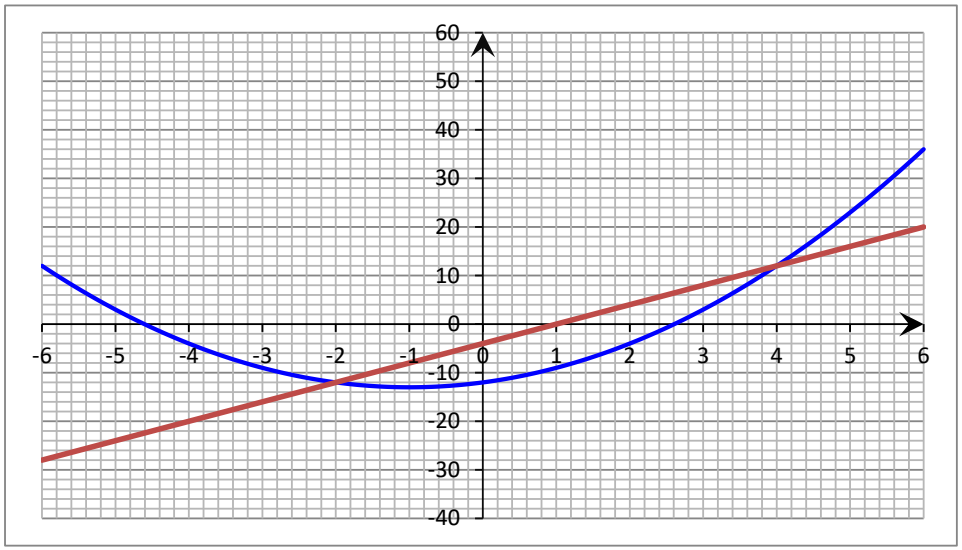

( 3 , 14 ) ( -4 , 0 )

***6***



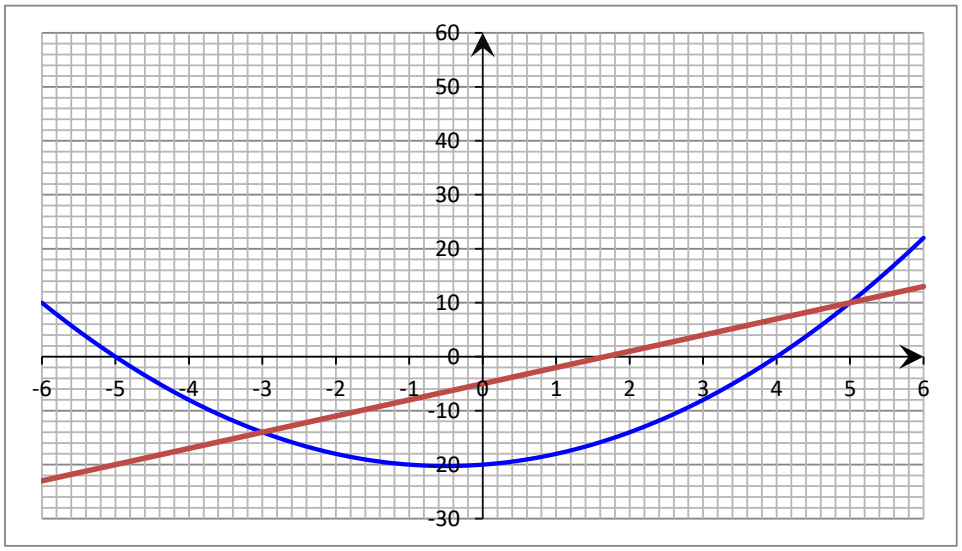

( 4.2 , 22.6 ) ( -2.2 , -2.6 )

***7***



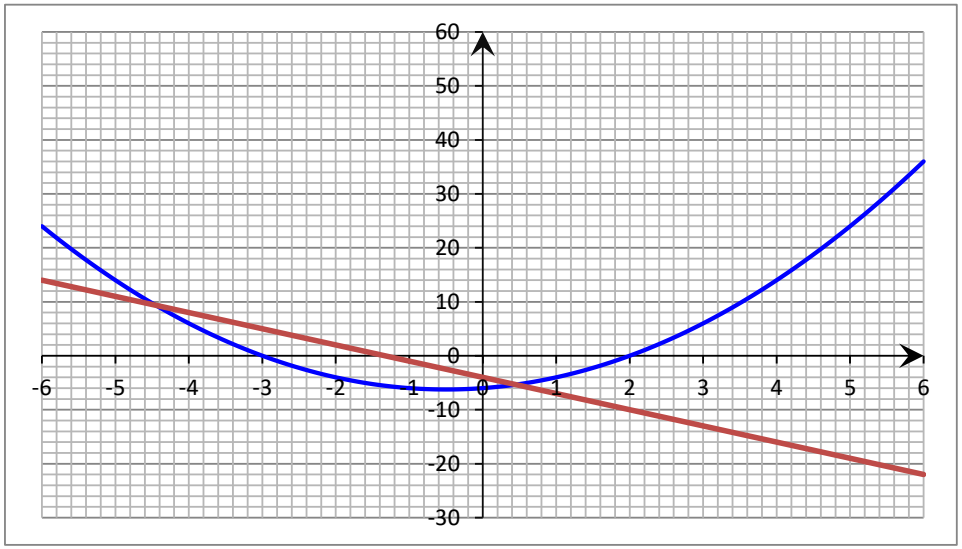

( 4 , 12 ) ( -2 , -12 )

***8***



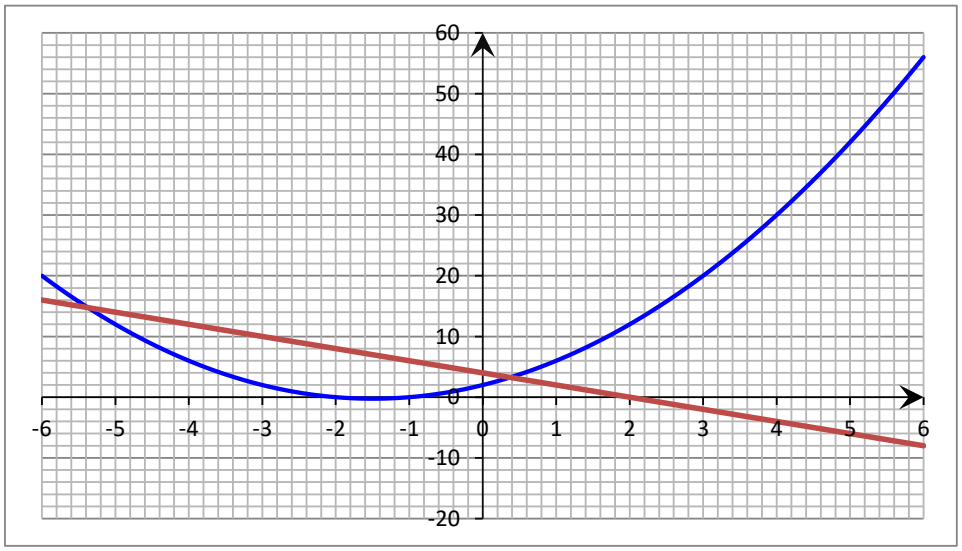

( 5 , 10 ) ( 5 , -14 )

***9***




( 0.4 , -5.3 ) ( -4.4 , 9.3 )

***10***




( 0.4 , 3.3 ) ( -5.4 , 15 )