EduSahara™ Assignment

Name : Solving Simultaneous Linear Equations using Graphs

Chapter : Coordinate System and Graphs

Grade : ICSE Grade VIII

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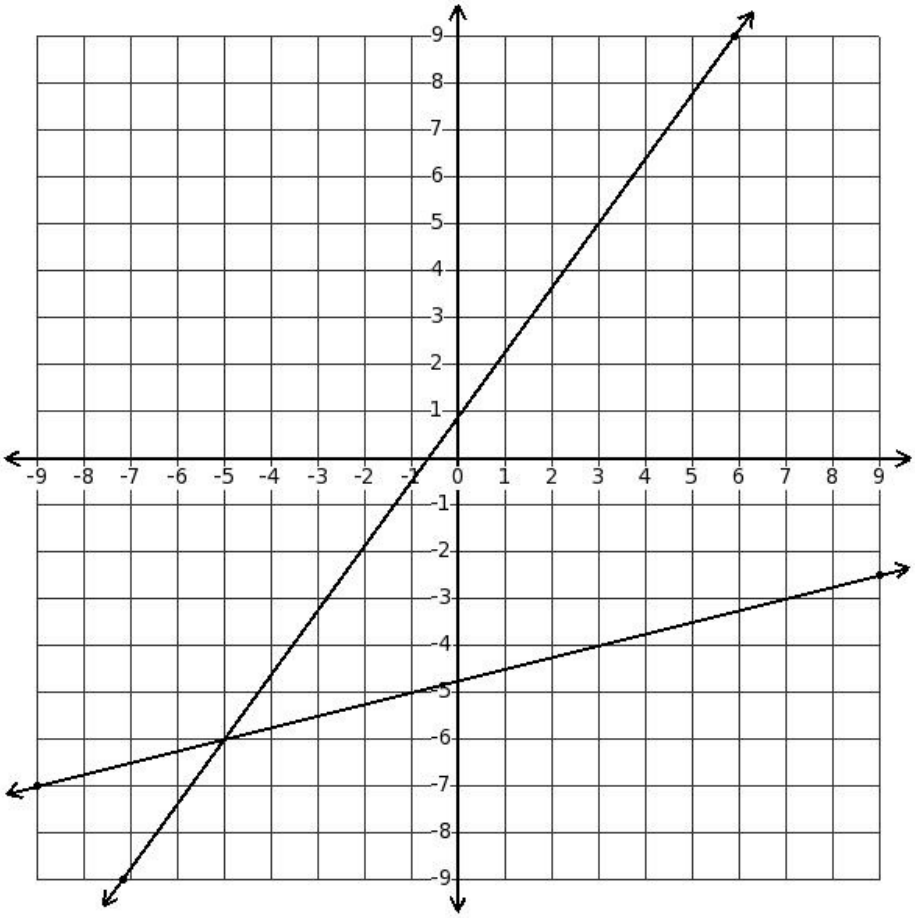
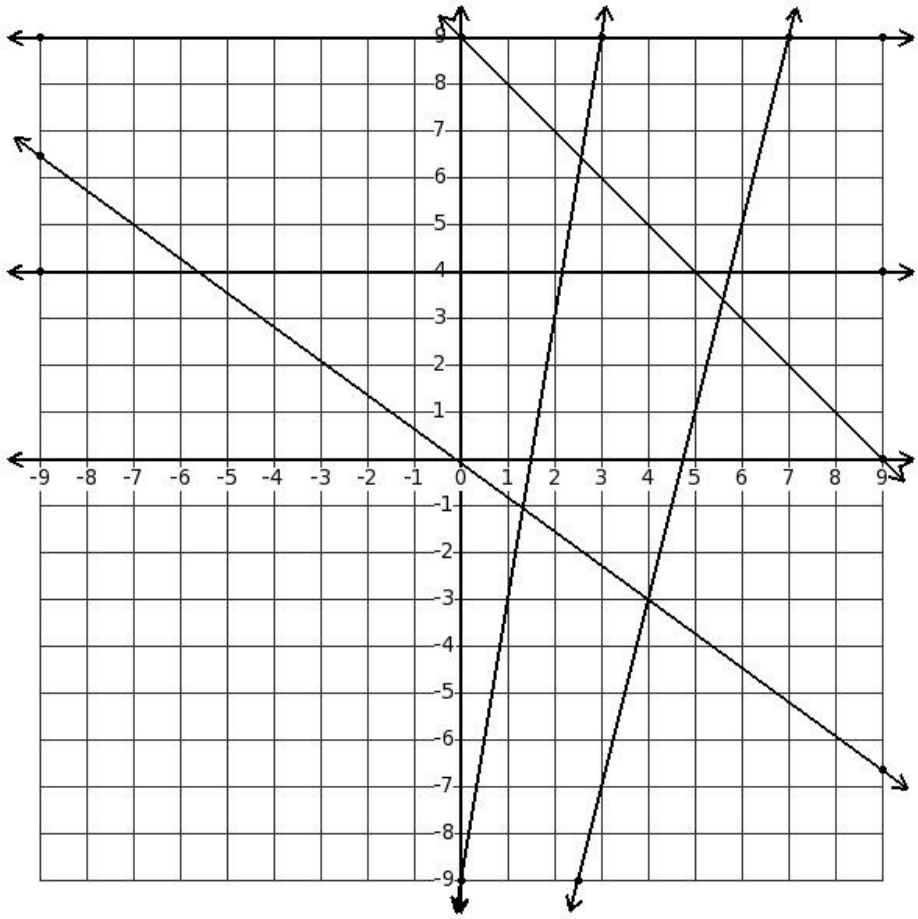
1. Solve $\begin{matrix}(-2x+8y+38)=0\\(11x-8y+7)\ =0\end{matrix}$



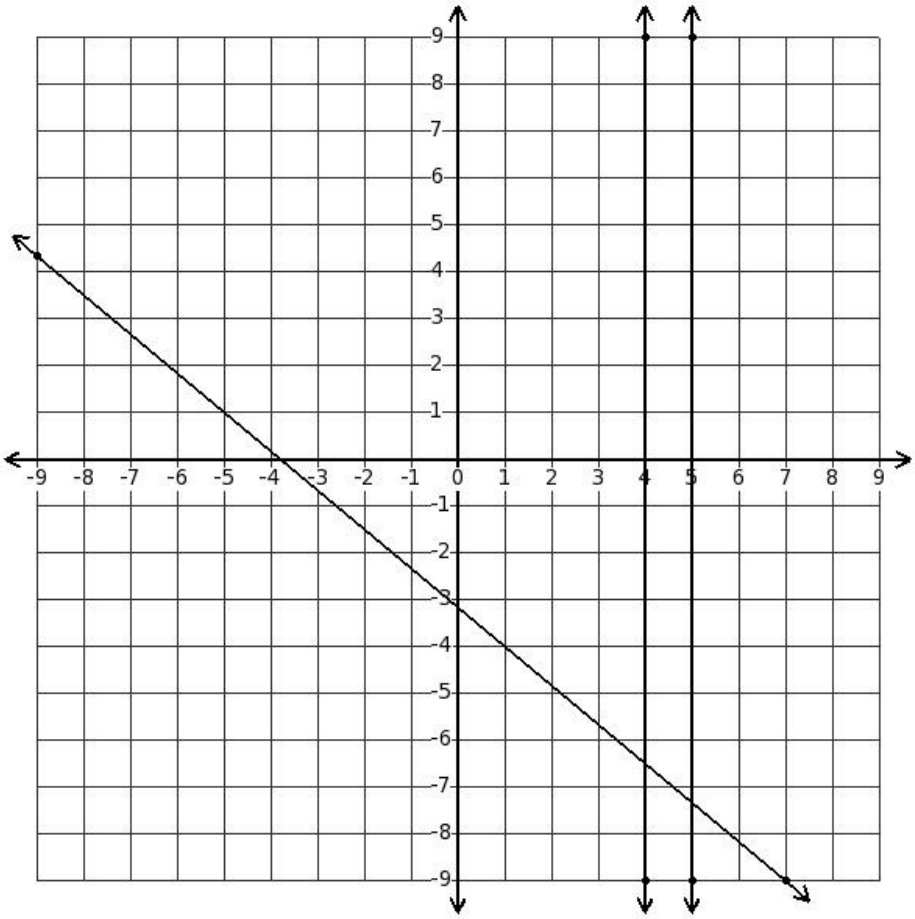

(i) $((-5),(-6))$ (ii) $((-4),(-7))$ (iii) $((-6),(-5))$ (iv) $((-7),(-8))$ (v) $((-3),(-4))$

2. Solve $\begin{matrix}(-8x-11y-1)=0\\(-4x+y+19)=0\end{matrix}$



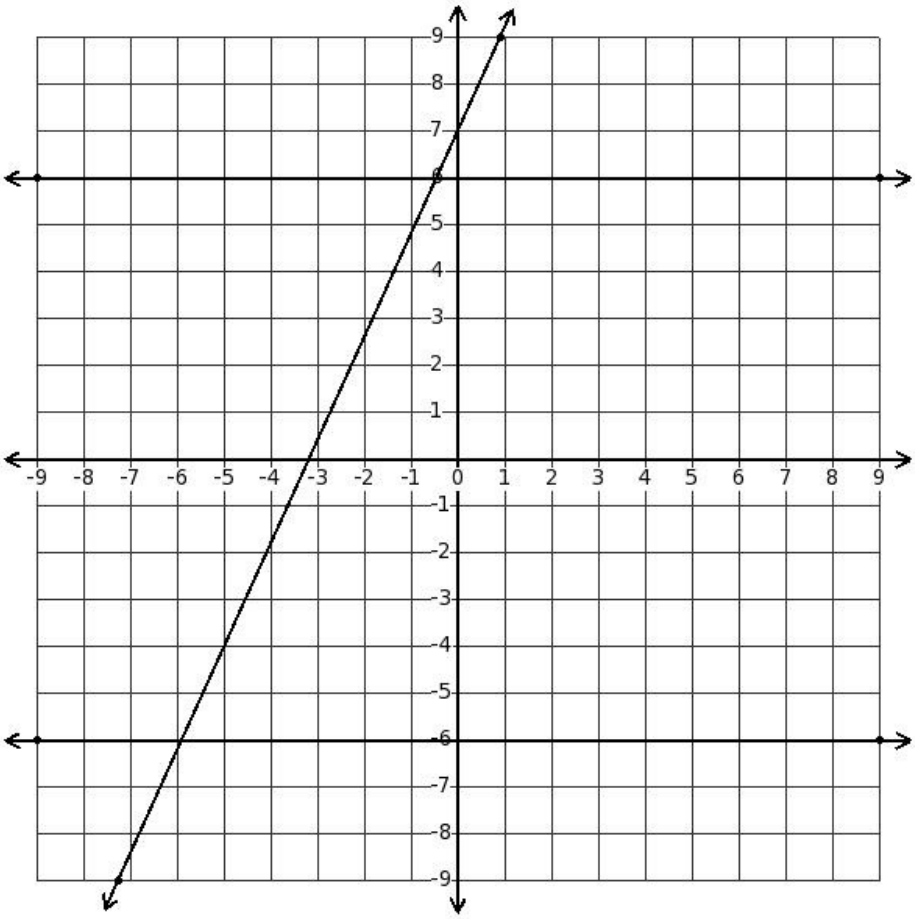

(i) $(2,(-5))$ (ii) $(5,4)$ (iii) $(6,(-1))$ (iv) $(4,(-3))$ (v) $(3,9)$

3. Solve $\begin{matrix}(x-4)=0\\(x-5)=0\end{matrix}$



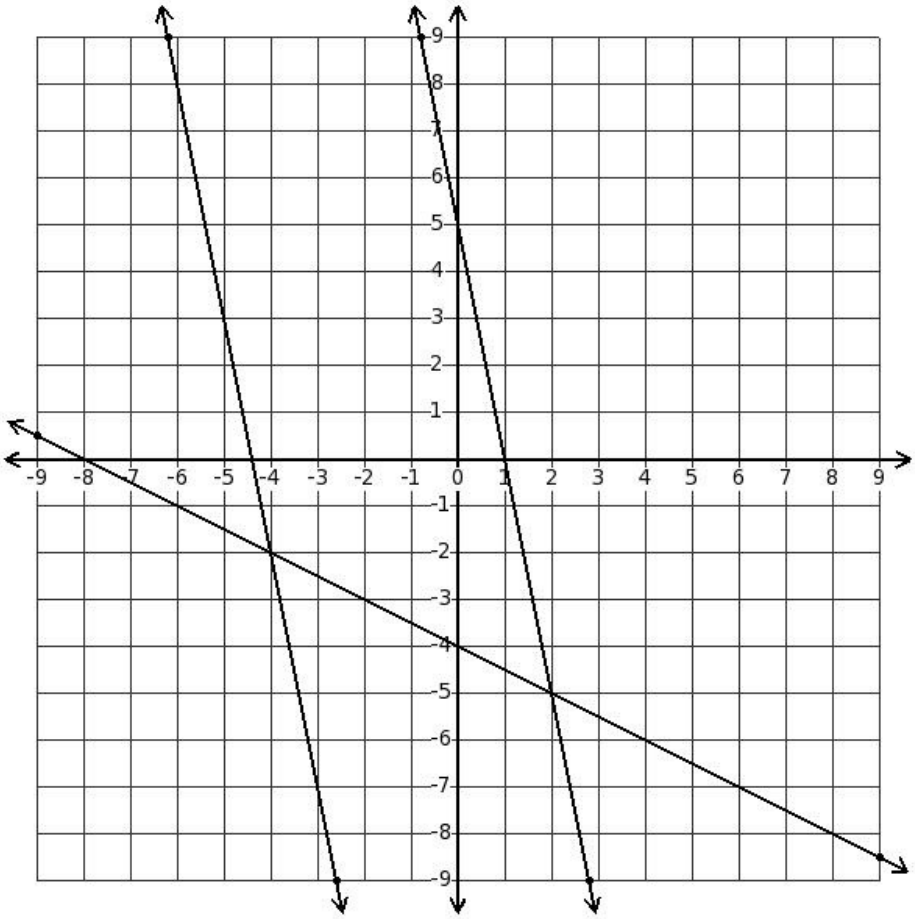

(i) Infinite solutions (ii) $(1,(-4))$ (iii) $((-7),(-1))$ (iv) $((-5),1)$ (v) No solution

4. Solve $\begin{matrix}(y-6)=0\\(y+6)=0\end{matrix}$



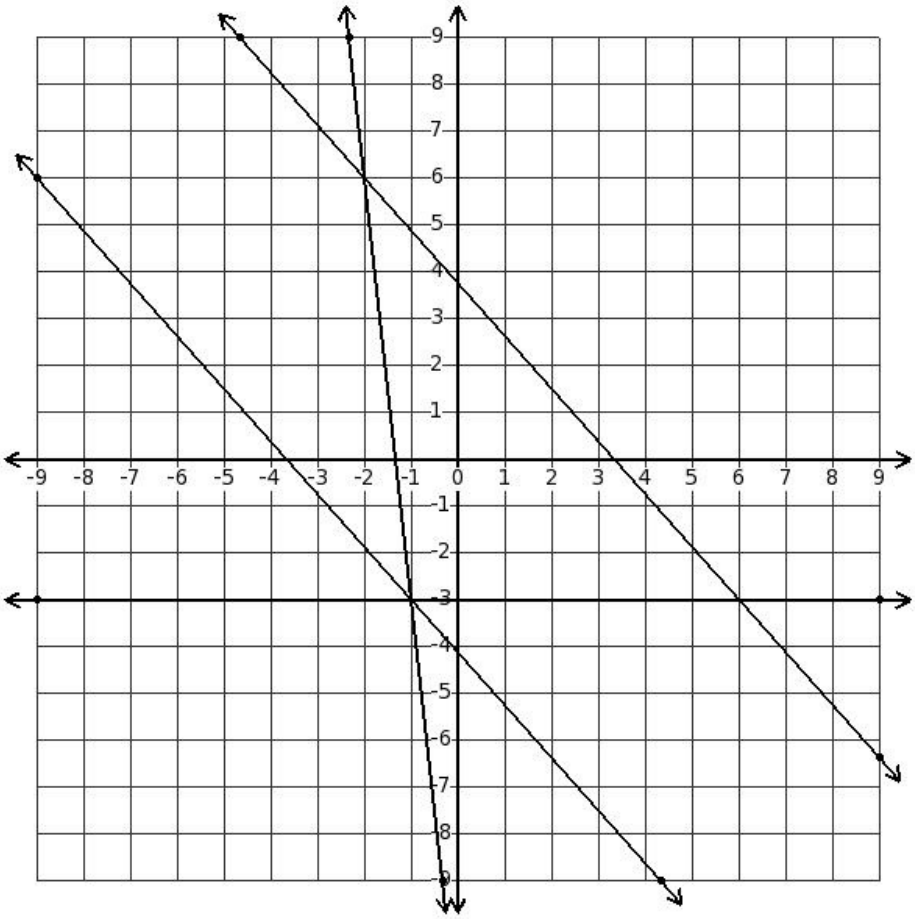

(i) Infinite solutions (ii) $((-2),5)$ (iii) $((-5),(-4))$ (iv) No solution (v) $(0,7)$

5. Solve $\begin{matrix}(10x+2y-10)=0\\(10x+2y+44)=0\end{matrix}$



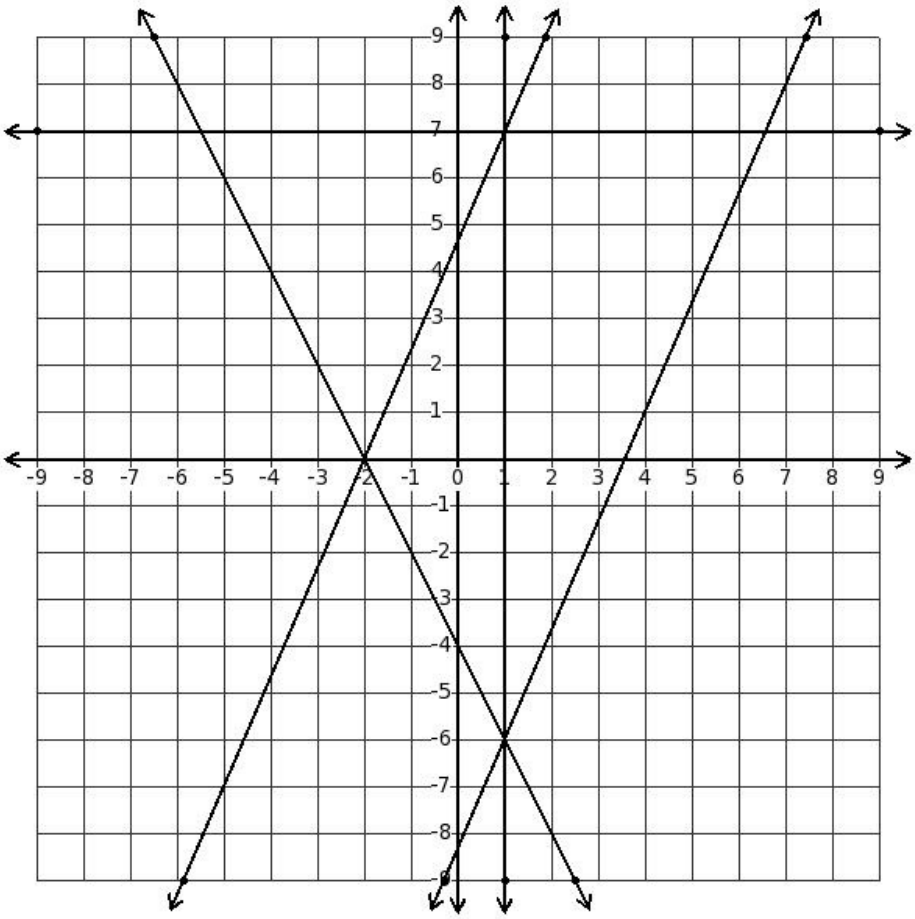

(i) Infinite solutions (ii) $(0,(-7))$ (iii) $(2,(-5))$ (iv) $((-4),(-2))$ (v) No solution

6. Solve $\begin{matrix}(9x+8y-30) & = 0 \\ (27x+24y-90) & = 0\end{matrix}$



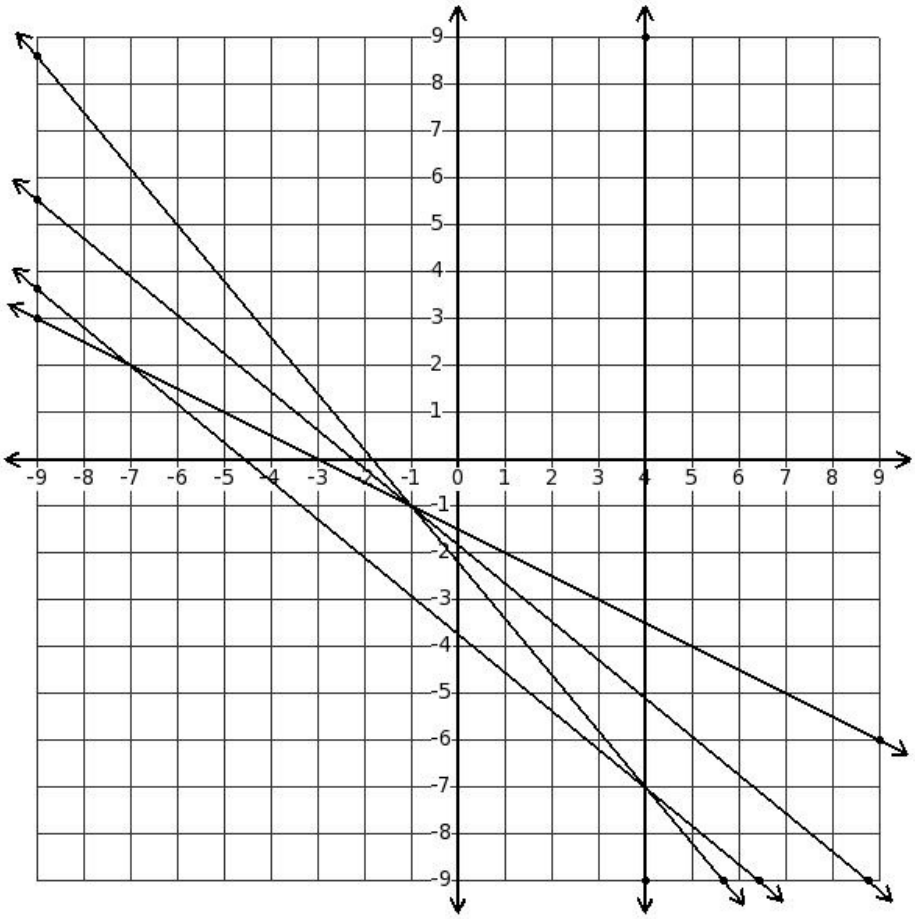

(i) Infinite solutions (ii) No solution (iii) $((-1),(-3))$ (iv) $((-2),6)$ (v) $(6,(-3))$

7. Solve $\begin{matrix}(-7x+3y-14)=0\\(y-7) \quad = \quad 0\end{matrix}$



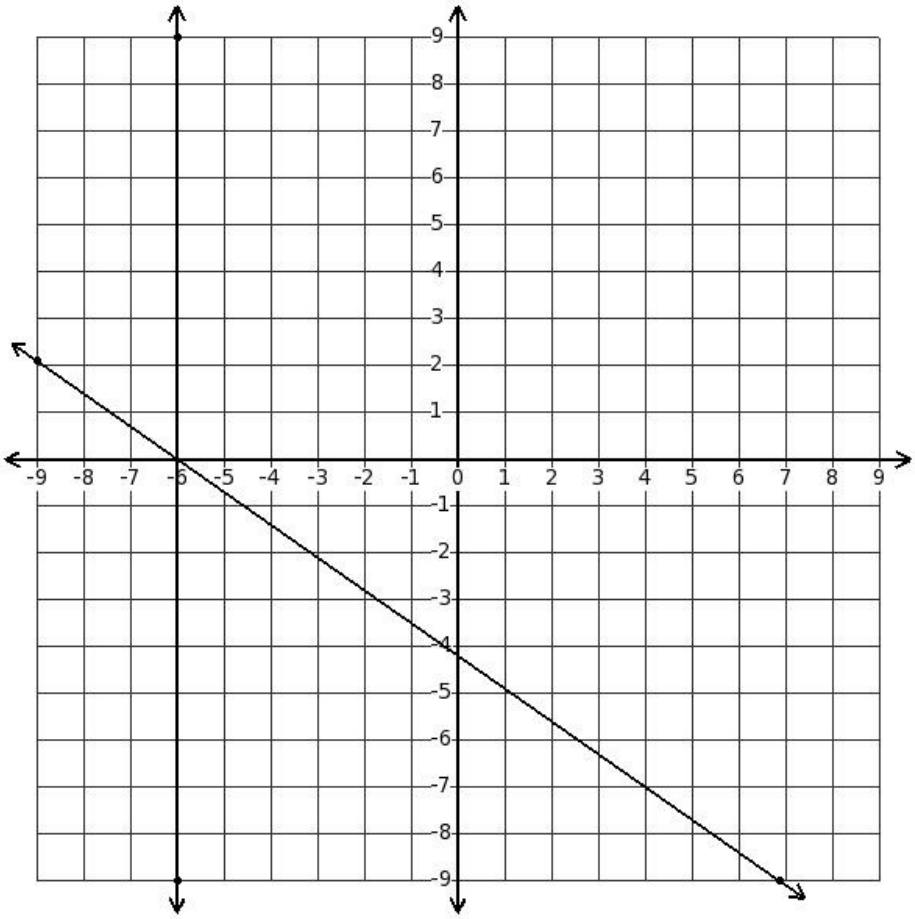

(i) $(0,7)$ (ii) $(1,0)$ (iii) $((-2),0)$ (iv) $(1,(-6))$ (v) $(1,7)$

8. Solve $\begin{array}{l}(9x+11y+41)=0\\(x-4)\quad\quad=\quad 0\end{array}$



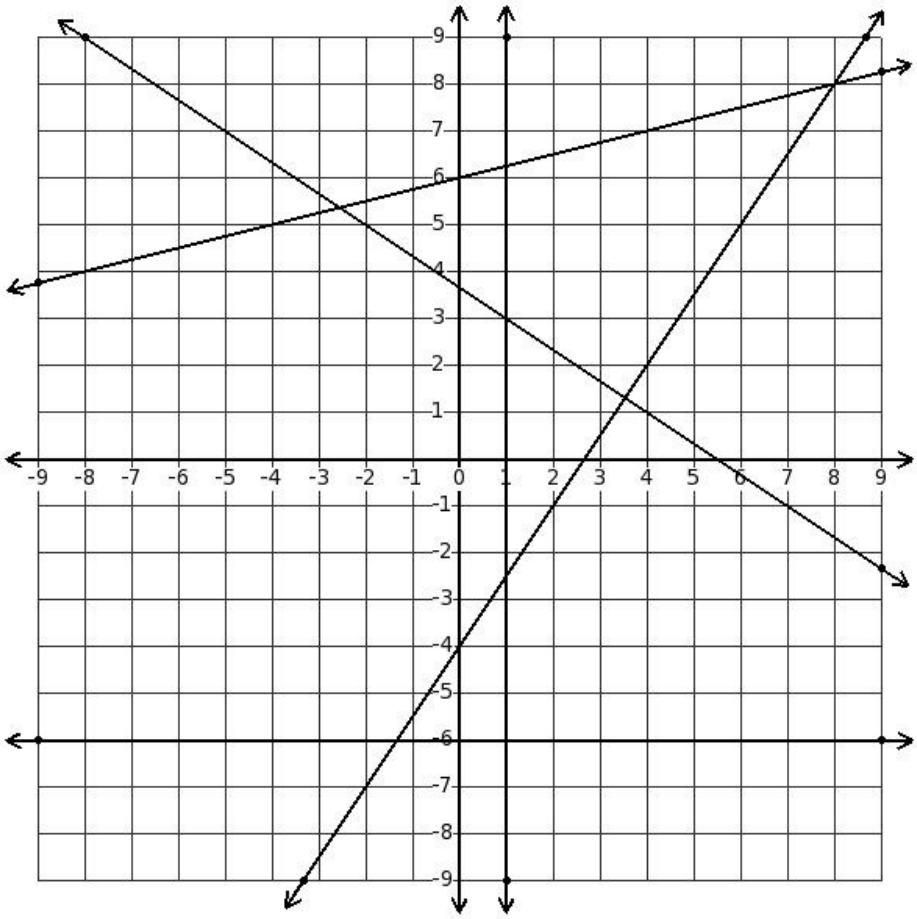

(i) $(4,(-7))$ (ii) $(0,(-7))$ (iii) $(4,0)$ (iv) $((-1),(-1))$ (v) $((-7),2)$

9. Solve $\begin{matrix}(7x+10y+42)=0\\(7x+42) \quad = \quad 0\end{matrix}$



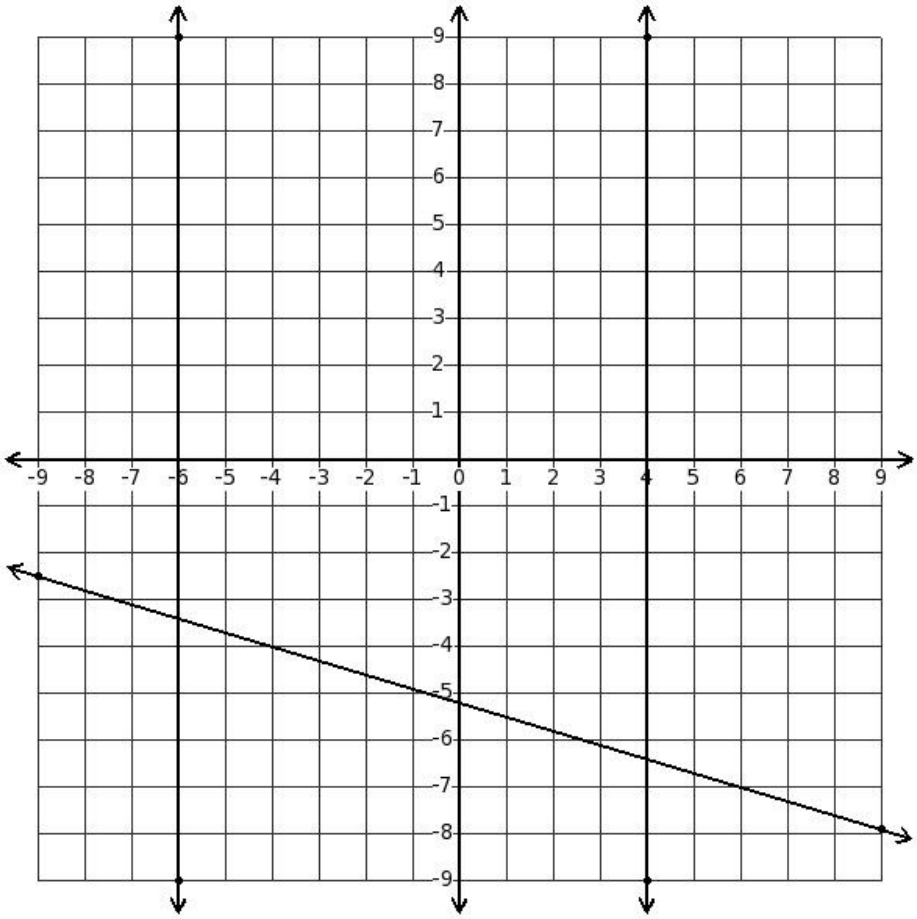

(i) $((-6),0)$ (ii) $((-8),(-2))$ (iii) $((-7),1)$ (iv) $((-5),(-1))$ (v) $((-4),2)$

10. Solve $\begin{matrix}(-12x+12)=0\\(3y+18) \quad = \ 0\end{matrix}$



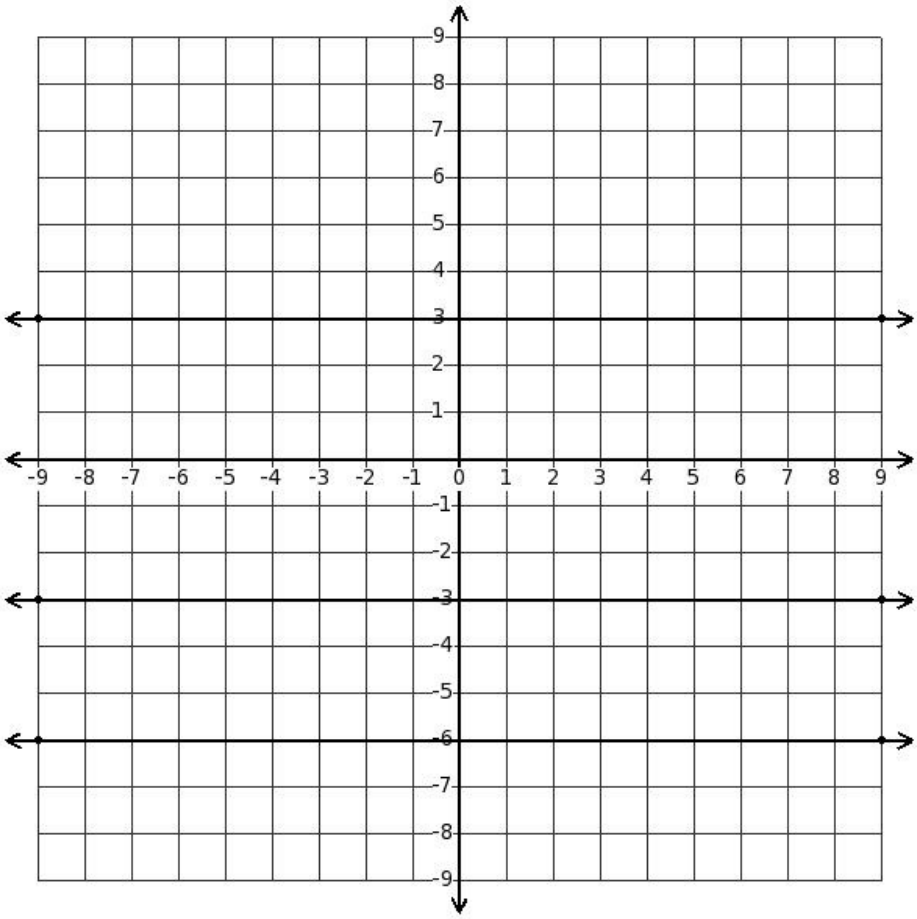

(i) $(1,(-6))$ (ii) $(3,(-4))$ (iii) $(8,8)$ (iv) $((-1),(-8))$ (v) $(4,1)$

11. Solve $\begin{matrix}(x+6)=0\\(x-4)=0\end{matrix}$



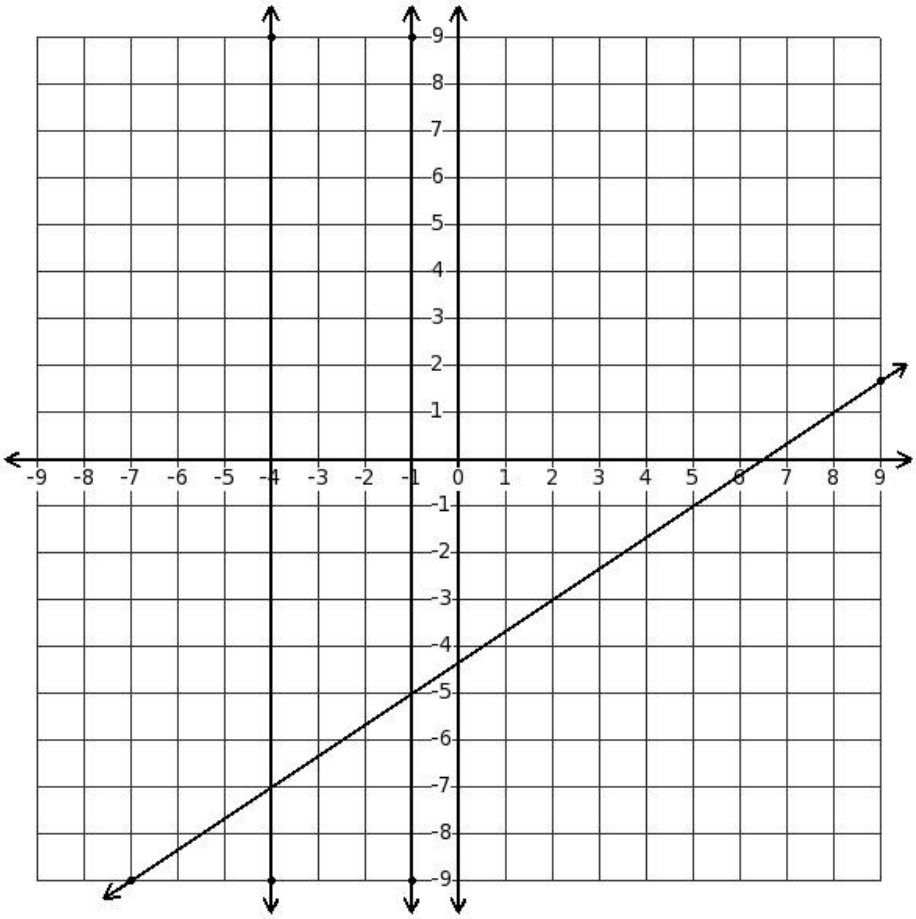

(i) No solution (ii) Infinite solutions (iii) $(6,(-7))$ (iv) $((-6),(-6))$ (v) $((-4),(-4))$

12. Solve $\begin{matrix}(y+6)=0\\(y+3)=0\end{matrix}$



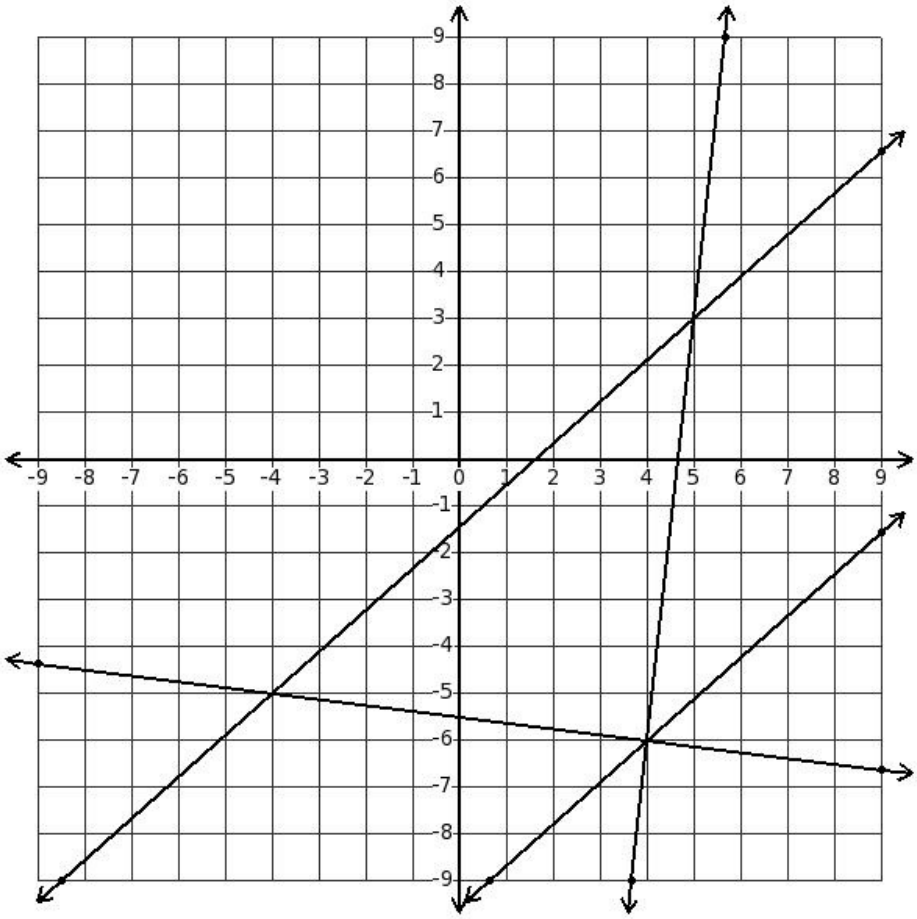

(i) $(4,3)$ (ii) No solution (iii) Infinite solutions (iv) $(6,3)$ (v) $(2,1)$

13. Solve $\begin{array}{l}(14x+56)=0\\(x+1)\quad=\ 0\end{array}$



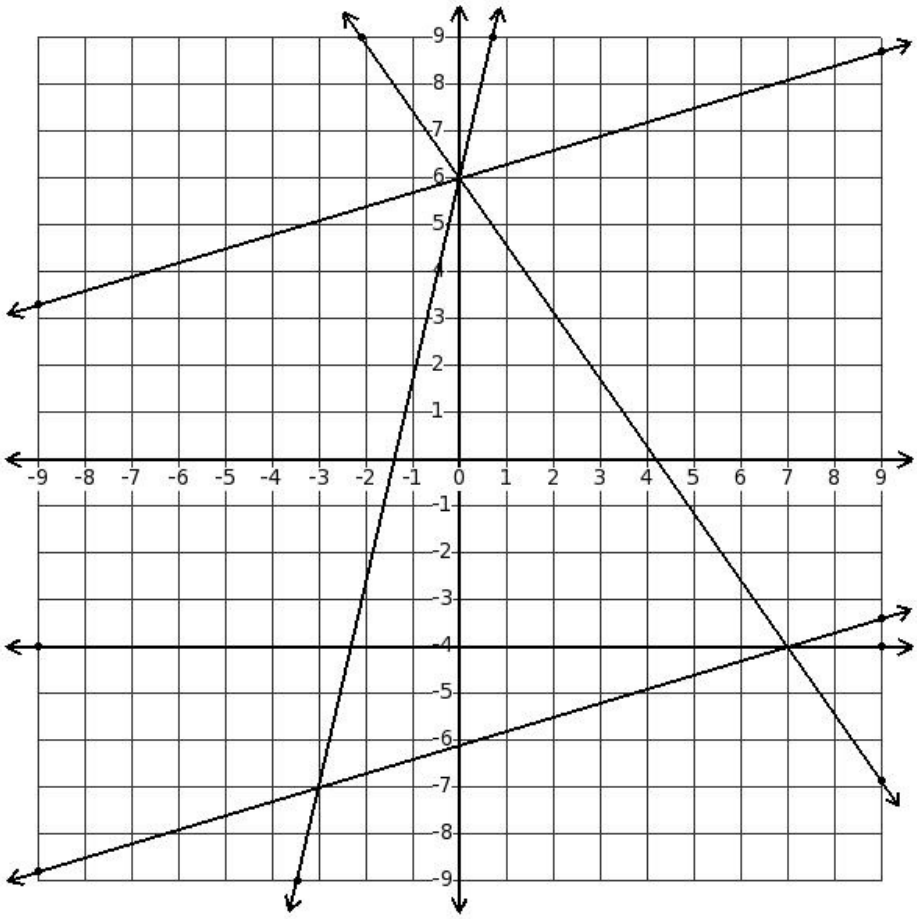

(i) No solution (ii) $((-6),(-9))$ (iii) $((-1),(-5))$ (iv) $((-4),(-7))$ (v) Infinite solutions

14. Solve $\begin{matrix}(8x-9y-13) & = 0 \\ (32x-36y-52) & = 0\end{matrix}$



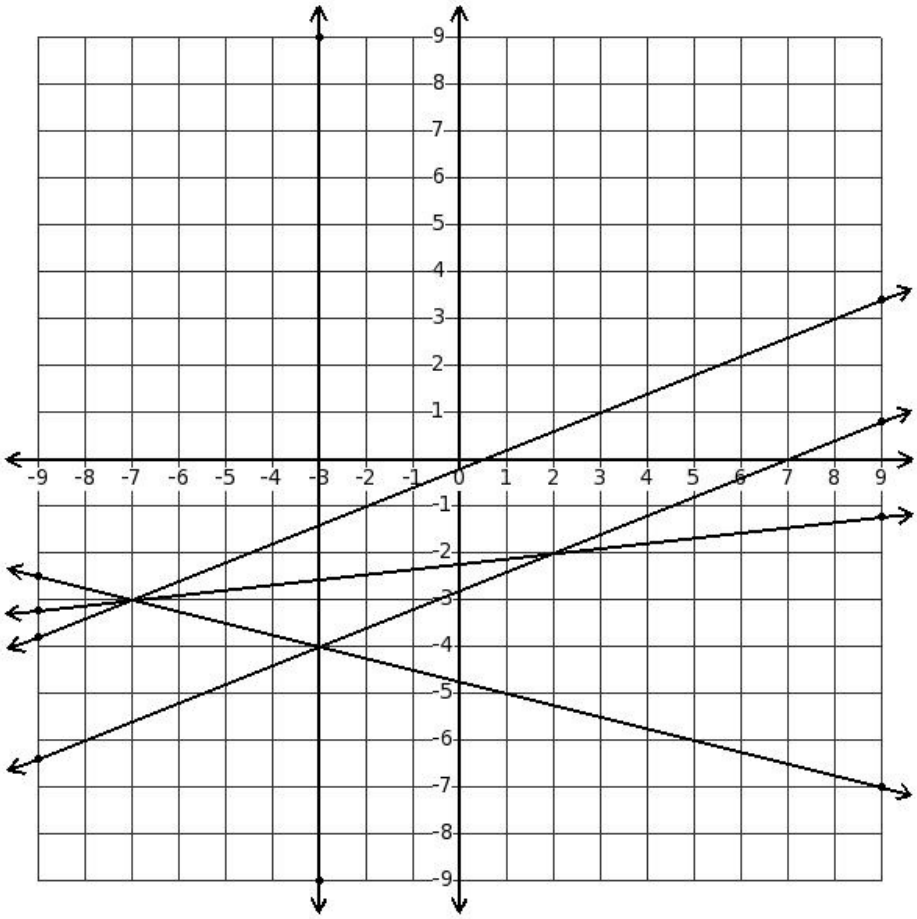

(i) $((-4),(-5))$ (ii) $(5,3)$ (iii) No solution (iv) Infinite solutions (v) $(4,(-6))$

15. Solve $\begin{matrix}(-3x+10y+61)=0\\(y+4)\qquad=\quad 0\end{matrix}$




(i) $(0,(-4))$ (ii) $(0,6)$ (iii) $(7,(-4))$ (iv) $(7,0)$ (v) $((-3),(-7))$

16. Solve $\begin{matrix}(2x-5y-14)=0\\(x+3) \quad = \quad 0\end{matrix}$




(i) $(0,(-4))$ (ii) $((-3),0)$ (iii) $(2,(-2))$ (iv) $((-7),(-3))$ (v) $((-3),(-4))$

## Assignment Key

| | | | | | |
|---|---|---|---|---|---|
| 1) (i) | 2) (iv) | 3) (v) | 4) (iv) | 5) (v) | 6) (i) |
| 7) (v) | 8) (i) | 9) (i) | 10) (i) | 11) (i) | 12) (ii) |
| 13) (i) | 14) (iv) | 15) (iii) | 16) (v) | | |

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