MATH M118 Practice Test Chapter 6 – Answers

1. $\begin{bmatrix} -6 & -4 & 7 \\ 3 & -4 & -3 \end{bmatrix}$

2. $\begin{bmatrix} 3 & -2 & 5 \\ 3 & 13 & 6 \end{bmatrix}$

3. Undefined

4. AC, BC, CA and CB are defined.

5. $\begin{bmatrix} 16 & -12 \\ 10 & 13 \end{bmatrix}$

6. 1

7. $\begin{bmatrix} 22 & 6 \\ 9 & 7 \end{bmatrix}$

8. $x = -\frac{1}{2},\ y = 4$

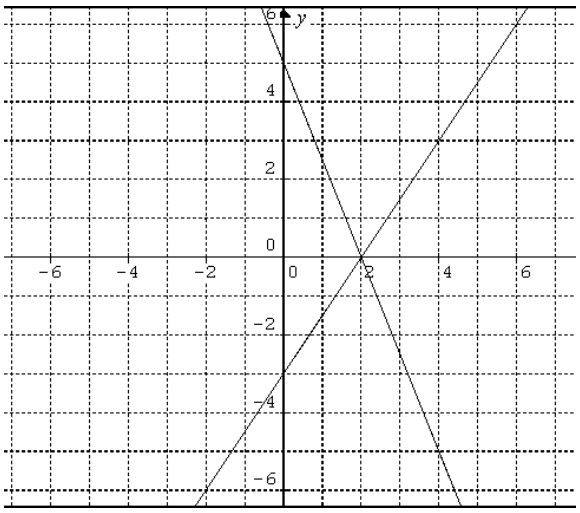
9. no solution (inconsistent and independent system)

10. infinitely many solutions (consistent and dependent system)

11. $x = -2,\ y = -1,\ z = 4$

12. $x = \frac{1}{2},\ y = 3,\ z = -1$

13.



Solution: $x = 2\ ,\ y = 0$

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14. Operate the Green Bay plant for 60 hours and the Sheboygan plant for 28.5 hours