

Answers to Classwork – Matrices

$$1. \left[\begin{array}{ccc|c} 2 & 1 & 2 & 2 \\ 3 & -5 & -1 & 4 \\ 1 & -2 & -3 & -6 \end{array} \right]$$

$$2. \left[\begin{array}{ccc|c} 1 & -1 & 1 & 8 \\ 0 & 1 & -12 & -15 \\ 0 & 0 & 1 & 1 \end{array} \right]$$

$$3. \left[\begin{array}{ccc|c} 3 & -2 & 5 & 31 \\ 1 & 3 & -3 & -12 \\ -2 & -5 & 3 & 11 \end{array} \right]$$

$$4. \left[\begin{array}{ccc|c} 5 & -2 & -3 & 0 \\ 1 & 1 & 0 & 5 \\ 2 & 0 & -3 & 4 \end{array} \right]$$

$$5. (1, -1, 2)$$

$$6. (3, -1, -1)$$

$$7. (2, -1, 1)$$

$$8. (2, 1, 1)$$

$$9. (1, 2, -1)$$

$$10. \emptyset$$

$$11. \emptyset$$

$$12. \left(-2z + 2, 2z + \frac{1}{2}, z \right)$$

$$13. (-3, 4, -2)$$

$$14. (-2z + 5, z - 2, z)$$