Answers to Worksheet 40 - Matrices

1) -17

2) -25

3) 16

4) 39

5) $\begin{bmatrix} 1 & -1 & 7 \\ 0 & -4 & -5 \end{bmatrix}$

6) $\begin{bmatrix} 7 & -7 \\ 5 & -8 \end{bmatrix}$

7) $\begin{bmatrix} j^2 - 4 - 2j - h \\ -5j \\ 4h + 6k - 5j \\ 2k - j - 6 \end{bmatrix}$

8) Undefined

9) One Solution

10) Infinitely Many Solutions

11) Independent

12) Dependent

13) $\left(-\dfrac{23}{15}, -\dfrac{29}{10}, \dfrac{8}{3} \right)$

14) $\left(\dfrac{16052}{1913}, \dfrac{46937}{3826}, -\dfrac{9762}{1913}, \dfrac{29749}{3826} \right)$