

Answers to Identity and Inverse Matrices

- 1) 5
5) Yes

- 2) 4
6) No

3) 85
7)
$$\begin{bmatrix} \frac{9}{20} & \frac{1}{2} \\ -\frac{1}{10} & 0 \end{bmatrix}$$

4) -105
8)
$$\begin{bmatrix} -\frac{1}{12} & \frac{1}{12} \\ -\frac{1}{24} & -\frac{1}{8} \end{bmatrix}$$

- 9) No inverse exists

10)
$$\begin{bmatrix} \frac{12}{23} & -\frac{1}{23} & -\frac{3}{23} \\ \frac{5}{23} & -\frac{10}{23} & -\frac{7}{23} \\ -\frac{11}{23} & -\frac{1}{23} & -\frac{3}{23} \end{bmatrix}$$