Section 4.2 The Determinant of a Square Matrix

31. Since A is available, then $A * A^{-1} = I$.

$$1 = \det(I) = \det(A \cdot A^{-1}) = \det(A) \cdot \det(A^{-1})$$

Thus $\det(A^{-1}) = 1/\det(A)$