Matrix Questions

Question 1:

What is the inverse of the matrix:

[[-6, 2], [-4, -3]]?

Solution:■Matrix([[-3/26, -1/13], [2/13, -3/13]])

Question 2:

What is the transpose of the matrix:

[[9, -9, 4], [3, -1, 2], [-3, -3, 0]]?

Solution:■Matrix([[9, 3, -3], [-9, -1, -3], [4, 2, 0]])

Question 3:

What is the determinant of the matrix:

[[-8, 6], [4, 6]]?

Solution:■-72

Question 4:

What is the result of multiplying the matrices:

[[-8, 2], [3, -6]]
and
[[-6, -3], [0, 6]]?

Solution:■Matrix([[48, 36], [-18, -45]])

Question 5:

What is the inverse of the matrix:

[[1, 2], [-6, -7]]?

Solution:■Matrix([[-7/5, -2/5], [6/5, 1/5]])

Question 6:

What is the determinant of the matrix:

[[3, -3], [3, -5]]?

Solution:■*-6*

Question 7:

What is the inverse of the matrix:

[[-2, -6], [1, -6]]?

Solution:■*Matrix([[-1/3, 1/3], [-1/18, -1/9]])*

Question 8:

What is the transpose of the matrix:

[[-9, 1, -5], [-6, 2, 9], [-2, -8, 0]]?

Solution:■*Matrix([[-9, -6, -2], [1, 2, -8], [-5, 9, 0]])*

Question 9:

What is the transpose of the matrix:

[[7, -4, -8], [6, 9, 2], [3, -1, 5]]?

Solution:■*Matrix([[7, 6, 3], [-4, 9, -1], [-8, 2, 5]])*