Practice worksheet | Matrices and transformations

Projections onto coordinate axes

Name: _____ Date: _____

6 questions | 12 marks

1. Give the matrix for projection onto the y-axis. [2 marks]

2. Find $P_x(-5, 6)^T$. [2 marks]

3. Find all points whose x-axis projection is $(2, 0)$. [2 marks]

4. Calculate P_y^2. [2 marks]

5. Explain why a coordinate projection has no inverse. [2 marks]

6. Compare the x-axis projection and x-axis reflection of $(3, 4)$. [2 marks]