

Student ID:

MATH201, Section 2
Fall 2018, Term 181

Quiz 3
Version A

Student Name:

Serial Number: _____

Instructions: Show Your Work!

1. (5 pts) Find an equation of the plane that passes through the point $(3, 1, 4)$ and contains the line of intersection of the planes

$$x + 2y + 3z = 1 \quad \text{and} \quad 2x - y + z = -3$$

2. (5 pts) For the surface

$$9y^2 + 4z^2 = x^2 + 36$$

- (a) Find the vertical and horizontal traces.
(b) Identify it.
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Student ID:

MATH201, Section 3
Fall 2018, Term 181

Quiz 3
Version B

Student Name:

Serial Number: _____

Instructions: Show Your Work!

1. (5 pts) Find an equation of the plane that passes through the line of intersection of the planes

$$x - z = 1 \quad \text{and} \quad y + 2z = -3$$

and is perpendicular to the plane

$$x + y - 2z = 1$$

2. (5 pts) For the surface

$$9x^2 + 4z^2 = y^2 + 36$$

- (a) Find the vertical and horizontal traces.
(b) Identify it.