
January 28, 2021

Score _____

- Turn over.*

4. (2 points) Find parametric and symmetric equations for the line in space passing through the points $P(2, 3, -1)$ and $Q(3, 1, 1)$.
5. (1 point) Refer back to problem 2. Find an equation for the plane containing the triangle, $\triangle ABC$.
6. (2 points) Consider the plane described by the equation $2x - y + 3z = 7$.
- (a) Find a unit vector perpendicular to the plane.
- (b) Find the distance from the plane to the point $P(1, 1, 1)$.