

Distance from a Point to a Line Worksheet

1. Find the distance from the point $(-2, 4)$ to the line $y = 2x - 2$. Round distance to nearest hundredths.

Step 1: Find the equation of the line perpendicular to $y = 2x - 2$ that goes through $(-2, 4)$

Step 2: Solve the new *system* of equations

Step 3: Find the distance between $(-2, 4)$ and the point you found in Step 2 above.

2. Find the distance from the point $(-6, 8)$ to the line $y = -3x + 10$. Round distance to nearest hundredths.

3. Find the distance from the point $(3, 8)$ to the line $y = \frac{1}{5}x - 3$. Round distance to nearest hundredths.