Name:_____Per:_____

Are the lines parallel? Explain your answer.

1. $y = 2x + 5$

$y = 2x$

2. $2x + 5y = 1$

$10y = -4x - 20$

Write an equation for the line parallel to $\overleftrightarrow{AB}$ that contains point C.

3. $\overleftrightarrow{AB}: -x + 2y = 4, C(-2, 4)$

Write an equation for the line perpendicular to $\overleftrightarrow{MN}$ that contains point P.

4. $\overleftrightarrow{MN}: y + 2x = -8, P(4, 4)$

Are the lines perpendicular? Explain.

5. $y = 3$

$x = -2$

6. $2x - 7y = -42$

$4y = -7x - 2$