Exit Ticket: Parallel and Perpendicular Lines

Write an equation for the line that is parallel to the given line and passes through the given point.

1 $y = 4x + 5; (3, 8)$

2 $y = \dfrac{7}{5}x - 5; (10, 3)$

Write the equation of a line that is perpendicular to the given line and that passes through the given point.

3 $-2x - 8y = 16; (-7, -1)$

Tell whether the lines for each pair of equations are *parallel*, *perpendicular*, or *neither*.

4 $y = \dfrac{3}{4}x - 10$

$12x + 9y = 24$
Ⓐ parallel
Ⓑ perpendicular
Ⓒ neither

5 $y = -\dfrac{5}{8}x - 3$

$-15x - 24y = 21$
Ⓐ parallel
Ⓑ perpendicular
Ⓒ neither

Exit Ticket: Parallel and Perpendicular Lines
Answer Section

1 $y = 4x - 4$

2 $y = \dfrac{7}{5}x - 11$

3 $y = 4x + 27$

4   B

5   A