1. Find the equation of the line between the points (1,6) and (-1,-2).

What is the slope of the line perpendicular to this line?

2. Find the equation of the line between the points (-1,8) and (3,-4).

What is the slope of the line perpendicular to this line?

3. Find the equation of the line between the points (2, -2) and (-4, -5).

What is the slope of the line perpendicular to this line?

Answers:

- y = 4x + 2, slope of perpendicular is -1/4
 y = -3x + 5, slope of perpendicular is 1/3
- 3. $y = \frac{1}{2}x 3$, slope of perpendicular is -2