Class Work

1. Find the slope of a line drawn perpendicular to the line through (3, 5) and (6, -3).

2. Find the equation of the line through (-3, -7) with a slope of 3.

3. Find the equation of the line through (-2, -3) and (5, -6).

4. Find the equation of the line through (3, 4) and parallel to $4x + 3y + 7 = 0$.

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Additional Problems:

1. Solve $x^2 - 25 \leq 0$

2. Give the domain of $f(x) = \sqrt{x^2 - 7x + 12}$

3. Make a sign chart for $f(x) = \dfrac{x(x+3)(x-1)}{(x+5)(x-5)}$