

Question#20698

Find the equation of the line that has a y intercept of 2 that is parallel to the graph of the line  $4x + 2y = 8$

Solution:

$$4x + 2y = 8$$

In slope intercept form:

$$y = -2x + 4$$

The equation of the line that is parallel to the given line is:

$$y = -2x + b$$

Such as the line has a y intercept of 2:

$$2 = -2 * 0 + b, b = 2$$

**Answer:**

**The equation of the line is:**

$$y = -2x + 2$$