DATE

NAME

Study Guide

Student Edition Pages 356-361

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Graphing Linear Equations

There are three methods you can use for graphing equations. You can find two ordered pairs that satisfy the equation, the *x*- and *y*-intercepts, or the slope and *y*-intercept.

Example 1: Graph 5x + 4y = 20 by using the *x*- and *y*-intercepts. The equation is in standard form Ax + By = C. (0, 5)The *x*-intercept is $\frac{C}{A}$, or 5. ণ্ট্র The *y*-intercept is $\frac{C}{B}$, or 4. 2 3 Thus, the graph contains the 3 (4, 0)points (4, 0) and (0, 5). 0 -3 1 3 **Example 2:** Graph $y = -\frac{3}{2}x - 1$ by using the slope and *y*-intercept. The *y*-intercept is -1, the slope $-\frac{3}{2}$.

Graph each equation by using the x- and y-intercepts.

1. -3x + 2y = 6



-4 -3 -2 -1**0** ż Ś 1

Graph each equation by using the slope and y-intercept.





