## 47. Which of the lines below is not parallel to the line $6 x-2 y=10$ ?

A) $3 x-y=7$
B) $-6 x+2 y=20$
C) $3 x+y=7$
D) $6 x-2 y=5$
E) $x-y / 3=9$

This question requires that we find the slope of each line. One of those slopes will not be equal to the slope of $6 x-2 y=10$.

First, find the slope of $6 x-2 y=10$ by putting it in Slope-Intercept form:

$$
6 x-2 y=10 \quad-2 y=-6 x+10 \quad y=\frac{-6}{-2} x+\frac{10}{-2} \quad y=3 x-5
$$

So, the slope we're looking for is 3 .
Before starting down the road of converting each equation into Slope-Intercept form, let's take a quick look at the answer options. Converting each of these equations into Slope-Intercept form would be very time consuming.

Answer C is almost in Slope-Intercept form, and will be as soon as 3 x is subtracted from both sides. When that happens, note that the slope will be -3 , not +3 , so we don't need to look any further.

The correct answer is C .

