Answer 48

48. For what value of k the equation below has nosolution?

$$2x + 3 = x - 2kx - 5$$

A) 1
B) 2
C) -1
D) 0.5
E) -0.5

First, simplify the equation by subtracting both x and 3. We're looking for the value of k, so we need to isolate that variable

$$2x + 3 = x - 2kx - 5$$

$$x + 2kx = -8$$

$$x(1 + 2k) = -8$$

$$x = \frac{-8}{(1 + 2k)}$$

Next, we know that (1+2k) can't equal zero, so solving for k gives k can't equal -1/2.

So, answer E.