Solving quadratic equations

$$100 - 121k^2 = 0$$

What are the solutions to the equation above?



$$(2x - 3)(x + 4) = 0$$

Let x=a and x=b be the solutions to the equation above. What is the value of -a-b?

0 = (2y - 1)(8 - y)

Let y=u and y=d be the solutions to the equation above. What is the value of $u\cdot d$?

Solving quadratic equations

$$(2x+5)(-mx+9)=0$$

In the equation above, m is a constant. If the equation has the solutions $x=-rac{5}{2}$ and $x=rac{3}{2}$, what is the value of m?

$$\left(x+\frac{13}{2}\right)\left(x-\frac{13}{2}\right)=0$$

How many distinct real solutions does the equation above have?

- (A)
- (B)