Function

$f(x) = -2x + 3$

$f(1) =$

$f(-1) =$

$f\left(\frac{1}{2}\right) =$

$f\left(-\frac{1}{2}\right) =$

$f(0) =$

$f(\sqrt{2}) =$

$f[f(x)] = ?$

⇩

$f(-2x + 3) = -2(-2x + 3) + 3 =$

= 4x-6+3

= 4x-3

---

$f(x) = ax + b$ a = ?

b = ?

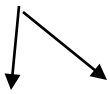
$f[f(x)]$ = 4x -3

$f$ (ax + b) = a (ax + b) +b =

= $a^2X$ +ab + b

$a^2X$ +ab + b = 4x – 3

$a^2 = 4$



a= -2 a = 2

ab + b = - 3

| | |
|---|---|
| a = 2 | a = -2 |
| 2b+b = -3 | -2b+b = -3 |
| 3b = -3 | - b = - 3 |
| b = - 1 | b = 3 |
| Y = 2x – 1 | Y = - 2x + 3 |