

Test out which is bigger when $n =$ different integers

$$n + 10$$

$$2n + 3$$

$$n + 10 = 1 + 10 = 11$$

$$n = 1$$

$$2n + 3 = 2 + 3 = 5$$

$$n + 10 = 2 + 10 = 12$$

$$n = 2$$

$$2n + 3 = 4 + 3 = 7$$

$$n + 10 = 3 + 10 = 13$$

$$n = 3$$

$$2n + 3 = 6 + 3 = 9$$

$$n + 10 = 4 + 10 = 14$$

$$n = 4$$

$$2n + 3 = 8 + 3 = 11$$

$$n + 10 = 5 + 10 = 15$$

$$n = 5$$

$$2n + 3 = 10 + 3 = 13$$

$$n + 10 = 6 + 10 = 16$$

$$n = 6$$

$$2n + 3 = 12 + 3 = 15$$

$$n + 10 = 7 + 10 = 17$$

$$n = 7$$

$$2n + 3 = 14 + 3 = 17$$

$$n + 10 = 8 + 10 = 18$$

$$n = 8$$

$$2n + 3 = 16 + 3 = 19$$

$$n + 10 = 9 + 10 = 19$$

$$n = 9$$

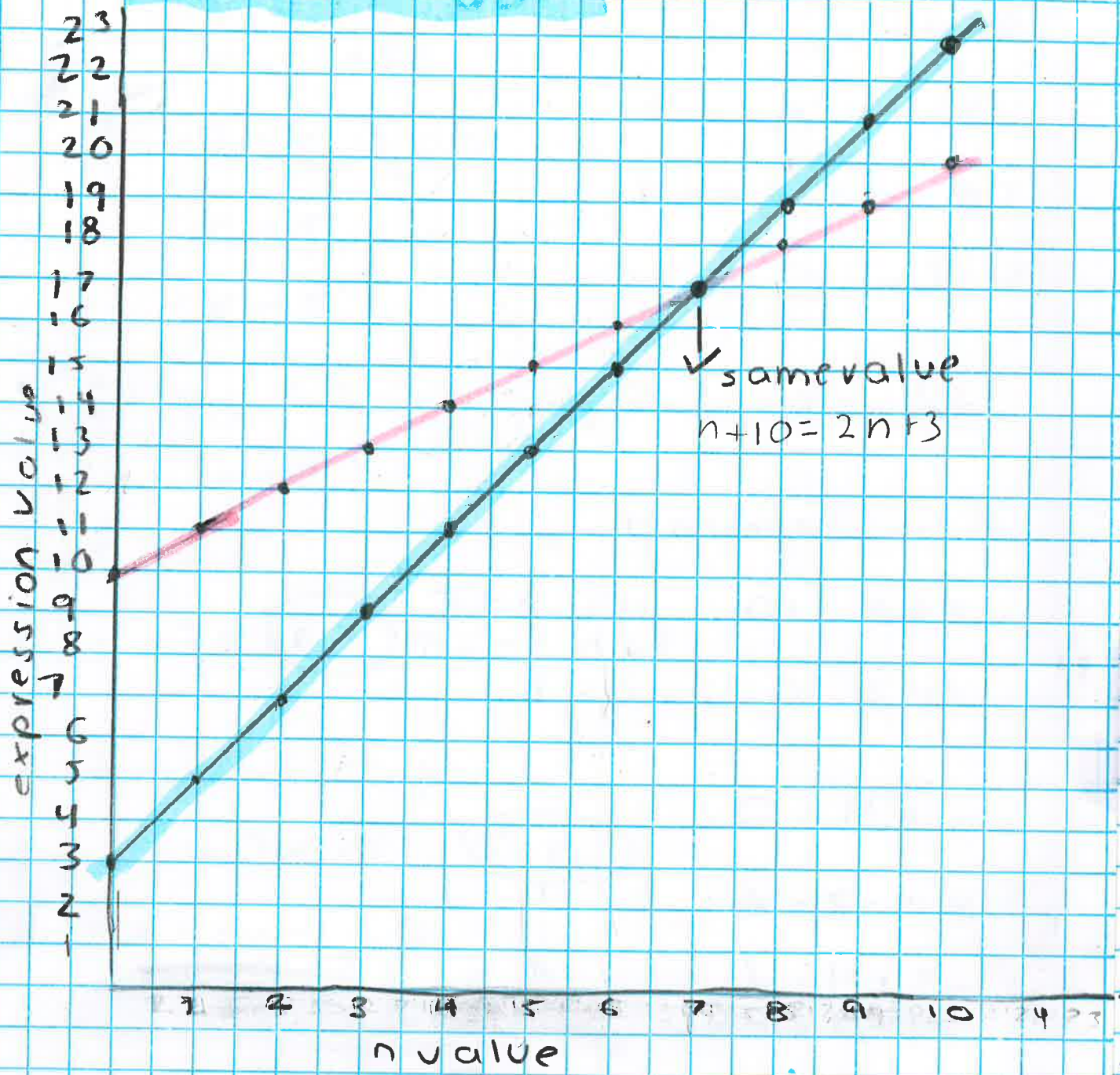
$$2n + 3 = 18 + 3 = 21$$

$$n + 10 = 10 + 10 = 20$$

$$n = 10$$

$$2n + 3 = 20 + 3 = 23$$

Which is bigger?



$n + 10$

$n < 7 \rightarrow \infty$

$n + 10 < 2n + 3$

$2n + 3$

$n > 7$

$2n + 3 < n + 10$