

SAT NC Thursday 11/8

The boiling point of water at sea level is 212 degrees Fahrenheit ($^{\circ}\text{F}$). For every increase of 1,000 feet above sea level, the boiling point of water drops approximately 1.84 $^{\circ}\text{F}$. Which of the following equations gives the approximate boiling point B, in $^{\circ}\text{F}$, at h feet above sea level?

- a) $B = 212 - 1.84h$
- b) $B = 212 - (0.00184)h$
- c) $B = 212h + 0$
- d) $B = 1.84(212) - 1,000h$

Linear
 $y = mx + b$



(per)
1.84 every
1000 Feet
 $\frac{1.84^{\circ}\text{F}}{1000\text{ ft}}$
0.00184

$y = mx + b$

Rate of change
 $\frac{\text{change of } y}{\text{change of } x}$

starting point
 $^{\circ}\text{F}$

ft

