Students understand the concepts of parallel lines and perpendicular lines and how their slopes are related. 1A8.0

172. What is the slope of a line parallel to the line $y = \frac{1}{3}x + 2$?

A -3

B $-\frac{1}{3}$

C $\frac{1}{3}$

D 2

173. Which of the following statements describes parallel lines?

A Same y-intercept but different slopes

B Same slope but different y-intercepts

C Opposite slopes but same x-intercepts

D Opposite x-intercepts but same y-intercept

174. Which of the following could be the equation of a line parallel to the line $y = 4x - 7$?

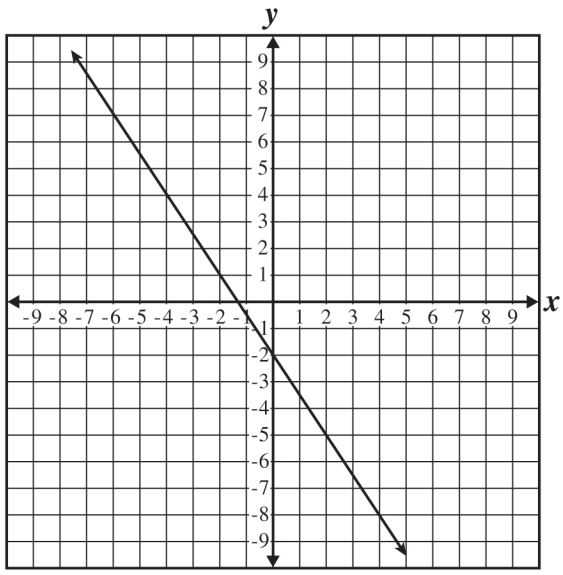
A $y = \frac{1}{4}x - 7$

B $y = 4x + 3$

C $y = -4x + 3$

D $y = -\frac{1}{4}x - 7$

175. What is the slope of a line parallel to the line below?



A $-\frac{3}{2}$

B $-\frac{2}{3}$

C $\frac{2}{3}$

D $\frac{3}{2}$