101) Which polynomial has the factorization $(2x + 1)(4x^2 - 2x + 1)$?

A) $2x^3 - 1$ B) $8x^3 - 1$ C) $2x^3 + 1$
D) $4x^3 + 1$ E) $8x^3 + 1$

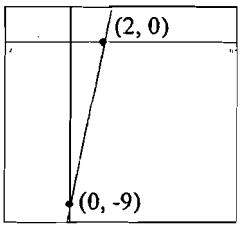
102) The population of Yolinka is currently 52,300. If the population of the town increases by approximately 7% each year, what will the approximate population be in 8 years?

A) 83, 980 B) 78,490 C) 89,860 D) 3,648,320

103) If $y = \frac{2x}{7}$, what happens to y if x is doubled?

A) y is halved
B) y is doubled
C) y is increased by a factor of 7
D) y is increased by 1

104) What is the equation of the line shown?



A) $9x - 2y = -18$
B) $-9x - 2y = 18$
C) $9x + 2y = 18$
D) $9x + 2y = -18$
E) $-9x + 2y = -18$

105) What is the y-intercept of the line $-4x - \frac{1}{2}y = 10$?

A) -20 B) -4 C) $-\frac{5}{2}$ D) 5 E) 20

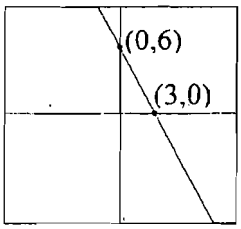
106) Write the equation $3x - 4y = 20$ in slope-intercept form.

A) $y = -\frac{3}{4}x - 5$
B) $y = -\frac{3}{4}x + 5$
C) $y = \frac{3}{4}x - 5$
D) $y = \frac{3}{4}x + 5$
E) $y = 20 - 3x$

107) Find the slope of the line passing through the points (1, 2) and (2, 1).

A) 1 B) 3 C) 2 D) -1 E) -2

108) Which of these equations describes the line shown?



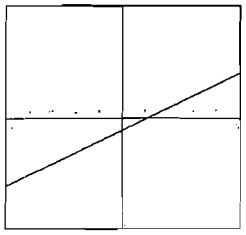
A) $y = -2x + 6$
B) $y = -\frac{1}{2}x + 6$
C) $y = \frac{1}{2}x + 6$
D) $y = 2x + 6$

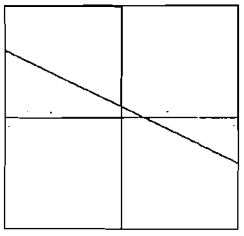
109) Which of these equations shows this linear relationship?

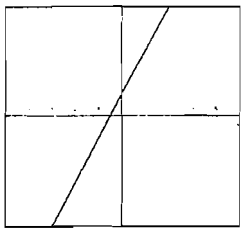
x	-2	-1	0	1	2
y	23	21	19	17	15

A) $y = -2x - 19$
B) $y = 2x - 19$
C) $y = 2x + 19$
D) $y = -2x + 19$
E) $y = -2x - 21$

110) Which is the graph of $y = -2x + 1$?

A) 

B) 

C) 

D)