N: D: P: 1 2 3 4 5 6

Algebra 2: Review Worksheet A Topics 1-2

Benchmark Test #1

A1-4 1) Solve for n. $4n + 3(n – 5) = 8$

A1-5 2) Solve for b. $x^3b + 6b = -7$

A1-4 3) Which element is in the solution set for the inequality $5c + 18 < 2c – 6$?
A) -8 B) -7 C) -9 D) 10

A1-4 4) Solve for x. $-\frac{1}{3}x - 9 > 6$

A2-1 5) Solve for x. $|4x - 11| = 9$

A2-1 6) What is the complete solution set to the equation $-4 + 2|x + 1| = 20$?

A2-1 7) Solve for x. $|3 - 2x| \geq 7$

A2-1 8) Write the sentence which describes the solution to the inequality $\frac{|x-6|}{3} > 5$.

A2-1 9) Find the solution set to the inequality $\left|\frac{3x-1}{4}\right| \leq 2$.

A2-1 10) Sketch the interval in the real number line that is the solution for $|x - 3| \geq 5$.

A1-6 11) Write the equation of the horizontal line which passes through the point (3, -2).

A1-8 12) Write an equation that represents a line that is parallel to $y = \frac{2}{3}x - 5$

A1-6 13) What is the x-intercept of the line $3x – 5y = -30$?

A1-6 14) Find the slope of the line $4x – 7y = 3$.

A1-7 15) What is the equation of the line that has a slope of -2 and passes through the point (4, -5)? Write your answer in slope-intercept form.

A1-7 16) Write the equation of a line which passes through the points (1, -6) and (4, -2). Write your answer in slope-intercept form.

A1-8 17) Write the equation of the line that passes through (-8, 7) and is perpendicular to the line $y = 4x - 5$. Write your answer in slope-intercept form.

A1-6 18) Graph the line $9x – 4y = 36$.

A1-6 19) Graph the inequality $-6x + 3y < 9$.

A1-6 20) Sketch the line graph of $y = -\frac{1}{4}x + 3$