

Algebra II Homework #5

- 1) Solve: $-|2x - 1| + 10 > 3$
- 2) Jake leaves a town at 11 a.m., going 53 mph, traveling east. Brett leaves the same town at noon going 41 mph, traveling west. What time of day will it be when Jake and Brett are 617 miles apart?
- 3) Solve: $2|x + 5| + 7 = 13$
- 4) If six more than triple the difference between the third and first of three consecutive even integers is eight less than the middle integer, find the three integers.
- 5) How much 86% acid should be added to 14 gallons of an 18% acid solution in order to make a 69% acid solution?
- 6) Find the slope of the line that goes through the points $(-7, 3)$ and $(-1, -5)$
- 7) Graph $3x - 5y = 10$ and find the x and y intercepts.
- 8) Find the distance between the points $(-5, -4)$ and $(-10, 2)$
- 9) Find the slope of the line that goes through the points $(-4, -5)$ and $(6, -3)$
- 10) Graph $-12x + 8y = 24$ and find the x and y intercepts.
- 11) Find the distance between the points $(-6, -3)$ and $(-1, 6)$
- 12) Find the slope of the line that goes through the points $(-4, -8)$ and $(-4, -2)$
- 13) Graph $7x - 6 = 15$ and find the x and y intercepts.
- 14) Find the distance between the points $(9, -4)$ and $(6, -5)$
- 15) Find the slope of the line that goes through the points $(-8, 1)$ and $(8, -11)$
- 16) Graph $\frac{1}{5}x + \frac{y}{4} = \frac{1}{2}$ and find the x and y intercepts.
- 17) Find the distance between the points $(7, 5)$ and $(3, -2)$
- 18) Find the slope of the line that goes through the points $(-9, -9)$ and $(5, -2)$
- 19) Graph $-20x = 12y$ and find the x and y intercepts.
- 20) Find the distance between the points $(-1, 1)$ and $(1, -2)$

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