Math-2A   Name_____ ID: 1
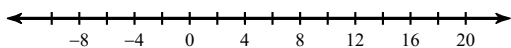SM2-A HW #2-6 (Review)   Date_____ Period____

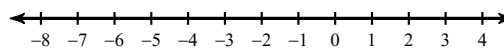**Simplify each expression**

1) $\dfrac{6}{7} + \dfrac{3}{5}$

2) $\dfrac{7}{8} + \dfrac{3}{2}$

Solve each inequality and graph its solution.

3) $\left|-4 + b\right| < 14$

4) $\left|m + 2\right| > 3$

Solve each equation. Show your work.

5) $125 = 5(1 + 3a)$

6) $-84 = -7(2p + 2)$

7) Name the property that says "if you add the same number to left and right sides of an equation, the result is an equivalent equation"?

8) Give an example that demonstrates the Identity Property of multiplication.

9) Give an example that demonstrates the commutative property of addition.

10) Give an example that demonstrates the inverse property of multiplication.

 Made with Infinite Algebra 2.

Simplify.

11) $\left(-6 - 3i\right) - \left(8 + 3i\right)$

12) $\left(7i\right)\left(-8 - i\right)$

Find each product.

13) $\left(5x + 1\right)\left(2x + 7\right)$

14) $\left(6x + 1\right)\left(5x - 3\right)$

15) $\left(1 + 7i\right)\left(5 + 2i\right)$

16) $\left(3 + 8i\right)\left(1 + i\right)$

Simplify.

17) $-u^2v^2 \cdot -4u \cdot 3u^4$

18) $-u^2v^3 \cdot v^4$

19) $\left(-x^4y^4\right)^4$

20) $\left(-3y^4\right)^3$