

## Review Sheet #3 for final exam

1. Use the rules of exponents to simplify the following. Write your answer using only positive exponents. Assume all variables represent non-zero numbers.

$$(8x^2y^3)(-3xy^2)$$

2. Evaluate  $3.5 - 2x$  for  $x = -1.9$ .

3. Simplify  $-\frac{36}{42}$

4. Use the rules of exponents to simplify the following. Write your answer using only positive exponents. Assume all variables represent non-zero numbers.

$$\frac{60x^7y^0}{15x^2y^9}$$

5. What is 25% of 180?

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6. Complete the ordered pair ( , 5) so that it is a solution of the linear equation  $y = 4 - 2x$ .

7. Use the rules of exponents to simplify the following. Write your answer using only positive exponents. Assume all variables represent non-zero numbers.

$$(4x^{-4}y^3)^{-2}$$

8. Write in scientific notation: 0.0065

9. How many pounds are in 78 kg? (Helpful information: 2.20 pounds = 1 kg.)

10. Evaluate  $a^2 - 2ab + 2c^2$  for  $a = 7$ ,  $b = -2$  and  $c = -1$ .

11. Write as a decimal number:  $9.4 \times 10^6$

12. What percent of 35 is 28?

13. How many kg are in 78 pounds? (Helpful information: 2.20 pounds = 1 kg.)

14. Do the points (2, 5), (3, 7) and (6, 10) lie on a straight line? Plot the points to see.

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