Monday: HW# 24A   *Go to www.Aleks.com to review for the FINAL EXAM!*

Name the relationship between the pair of angles indicated as shown in the figure:

line x ∥ line y.

1. ∠1 and ∠5 _____

2. ∠1 and ∠3 _____

3. ∠1 and ∠7 _____

4. ∠1 and ∠4 _____

5. ∠4 and ∠5 _____

6. If you are given that the $m\angle2$ is 70° describe how you can determine the
   measure of ∠7. _____

   _____

   _____

   _____
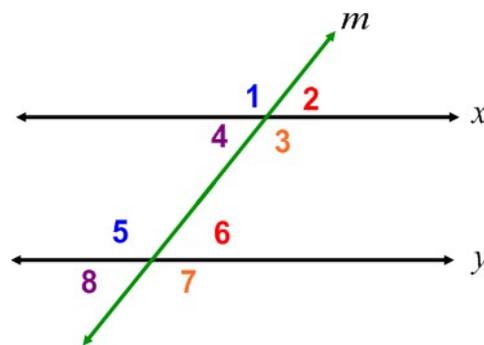
Tuesday: HW #24B

7. Determine the product. $800.5 \times (2 \times 10^6)$

   a. 1.7×10^7 b. 1.601×10^7 c. 1.7×10^9 d. 1.601×10^9

8. A certain human red blood cell has a diameter of 0.000008 meters. Which expression represents this diameter, in meters, in scientific notation.

   a. 8×10^6 b. 8×10^5 c. 8×10^{-5} d. 8×10^{-6}

9. Which expression is equivalent to $(4.5 \times 10^2) + (6.0 \times 10^3)$ and written in scientific notation.

   a. 1.05×10^6 b. 2.7×10^6 c. 6.45×10^3 d. 10.5×10^5

Wednesday: HW# 24C

10. Which number is equivalent to $\dfrac{3^4}{3^2}$

    a) 2   b) 9   c) 81   d) 729

Solve each equation:

11. $\dfrac{3}{5}x - 15 = \dfrac{6}{5}x + 12$ 12. $3(6 - 4x) = -2(6x - 9)$

Thursday: HW #24D

13. The combined volume of all the tanks at an aquarium is 1.25×10^6 gallons. The aquarium plans to install a new dolphin tank with a volume of 250,000 gallons. What will be the total volume of all of the tanks at the aquarium after the new dolphin tank is installed?
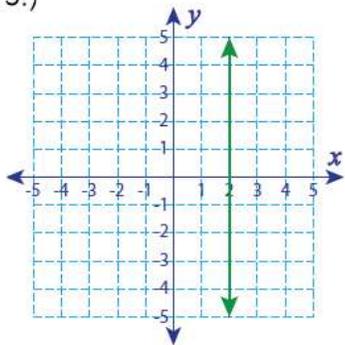
a. 1.5×10^5 b. 3.75×10^5 c. 1.5×10^6 d. 3.75×10^6

14. Which expression is equivalent to $4^{-3} \times 4^6$

a. 4^{-18} b. 4^3 c. 4^9 d. 4^{-9}
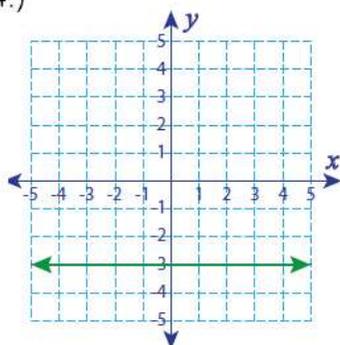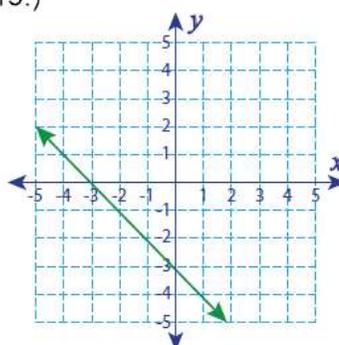
Choose the correct equation to match each graph shown:

13.)

14.)

15.)

a.) $y = 2$ a.) $y = -3$ a.) $y = -3$

b.) $x = 2$ b.) $x = -3$ b.) $y = -x - 3$

c.) $y = x$ c.) $y = -3x - 3$ c.) $y = -x + 3$