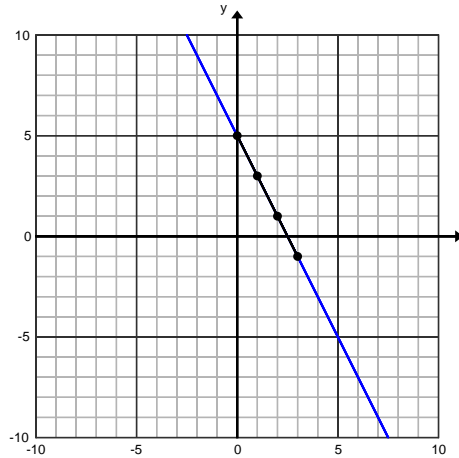
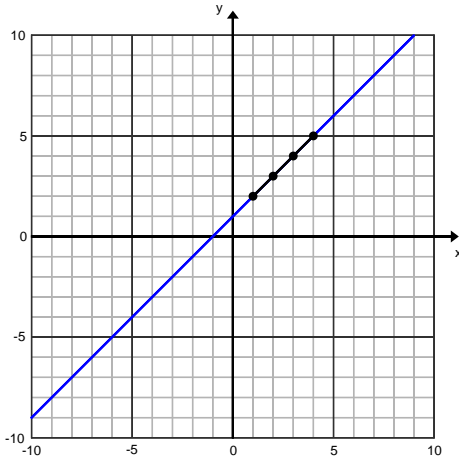


Ma 9 – Flashback #4

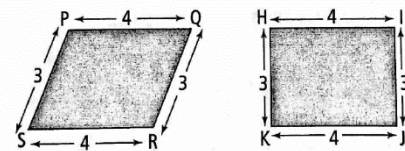
1. Determine the linear equation that models each graph. (Hint – look at the “nice” points)



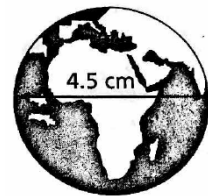
2. Estimate the following (no calculators): $-2.56 + 6.7 \div 1.3$

3. Evaluate: $\left(\frac{2}{3}\right)^2 + \left(\frac{-2}{-3}\right)^3 + \frac{1}{3} \div \frac{2}{5}$

4. Are these polygons similar? Explain your thinking.



5. Determine the diameter of the Earth. The scale for the image is 1 cm : 2834.7 km.



6. Replace each box with $>$, $<$ or $=$ to make each statement true. Explain how you determined the correct symbol.

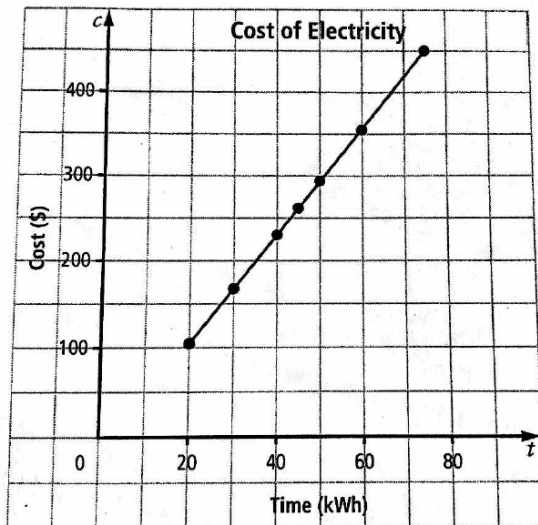
a) $\frac{-6}{4}$ $\frac{3}{-2}$

b) $-3\frac{5}{8}$ $-3\frac{7}{9}$

7. Solve the inequality. Show the solution on a numberline. Verify the solution.

$$5(2x + 4) > 2(7x + 4)$$

8. The graph represents the relationship between the cost of electricity and the amount used in a house. The electricity is measured in kilowatt hours (kwh).



- Is it reasonable to interpolate or extrapolate values on this graph?
- Approximately how much does it cost to use 45 kWh of electricity?
- Approximately how many kilowatt hours of electricity could you use for \$450?

9. Simplify: $(7x^2 - x + 2) - (x^2 + 5x - 3) + 4(x^2 - 1)$

- what are the coefficients in the simplified answer
- What is the constant?
- What type of polynomial is it?

10. Evaluate: -4^2