IM1 Problem Set 9 - Daily Tasks

| Task 1 | Task 2 | DC |
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| Put solutions to problems from the <br> previous Problem Set on the board | Discuss all problems and come to a consensus. Record solutions in your <br> notebooks and present solutions. | DC |


| Problem Set 9 |  |
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| 9.1 | a. What does $\left(2 x^{3}\right)^{6}$ mean? What about $\left(\frac{x}{5}\right)^{3}$ ? <br> b. Simplify <br> (i) $\frac{y^{4}\left(2 y^{2}\right)^{3}}{16 y^{3}}$ <br> (ii) $\left(2 b^{3}\right)^{-2}$ |
| 9.2 | $\begin{array}{lll}\text { Evaluate: } & \text { a. } 5^{0}-2 \times(4+2 \times 3) & \text { b. } \frac{3}{4}+\frac{5}{2} \div-1 \frac{2}{3}\end{array}$ |
| 9.4 | Graph the following 2 linear functions on your TI-84 and then copy the graphs into your notebook: <br> a. $\quad g(x)=-\frac{2}{3} x+15$ <br> b. $y-8=\frac{5}{3}(x+3)$ |
| 9.3 | There are 5 red marbles and 3 green marbles in a bag. Seung Jee takes a marble from the bag. She does not put the marble back in the bag. Hae Lin takes a second marble from the bag. <br> a. Complete the probability tree diagram. <br> b. How probable is it that the girls finish with two green marbles? <br> c. Work out the probability that the girls take marbles of different colours. |
| 9.5 | Given the points $(-4,5)(10,-3)$, determine: <br> a. The slope between the points <br> b. The distance between the point. Show how you did this. Explain your reasoning. <br> c. The equation of the line joining the 2 points. |



