Name:

QUIZ – MATH GRADE 11 IB SL

1. (100%) Calculate/Simplify as much as possible:

a. (7%) $\left(-2\right)^{-1} =$

b. (8%) $\left(-3\right)^{-2} =$

c. (10%) $-3^{-2} - 5^{-1} =$

d. (10%) $-(-2)^{-2} - 2^{-1} \ =$

e. (10%) $\left(\dfrac{3}{90}\right)^{-1} =$

f. (10%) $\left(\dfrac{-1}{2}\right)^{-2} =$

g. (15%) Write in the form 2^{k}

$\dfrac{2^{3} \cdot 16}{2^{-2}} =$

h. (15%) Write in the form 3^{k}

$\left(\dfrac{3^{-1}}{9^{2}}\right)^{-4} =$

i. (15%) Simplify:

$\left(\dfrac{25}{8}\right)^{-4} \div \left(\dfrac{32}{125}\right)^{-2} =$

Bonus (10%) Write the following in the form 3^{a}

$\left(\dfrac{1}{9}\right)^{-2} \cdot \dfrac{81 \cdot 27^{-2}}{3^{5} 9^{-2}} =$