



Core Mathematics C12(GCE)

Practice Question 8

Standard A[★]

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**CRITICAL THINKING IS THE KEY TO SOLVE REAL WORLD PROBLEMS.
CHILDREN MUST BE TAUGHT HOW TO THINK, NOT WHAT TO THINK.
A GREAT TEACHER WILL BE CREATING STUDENTS TO DO NEW THINGS
THROUGH CRITICAL THINKING, NOT SIMPLY REPEATING WHAT OTHER
GENERATIONS HAVE DONE BEFORE. WE DO NOT NEED ANOTHER
ALBERT EINSTEIN OR ISAAC NEWTON.... WE NEED A PERSON BETTER
THAN THEM.**

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Inequalities

Question:

Which of the numbers a and b is greater in the inequality?

(a) $(0.75)^a > (0.75)^b$

1 mark

(b) $(1.2)^a < (1.2)^b$

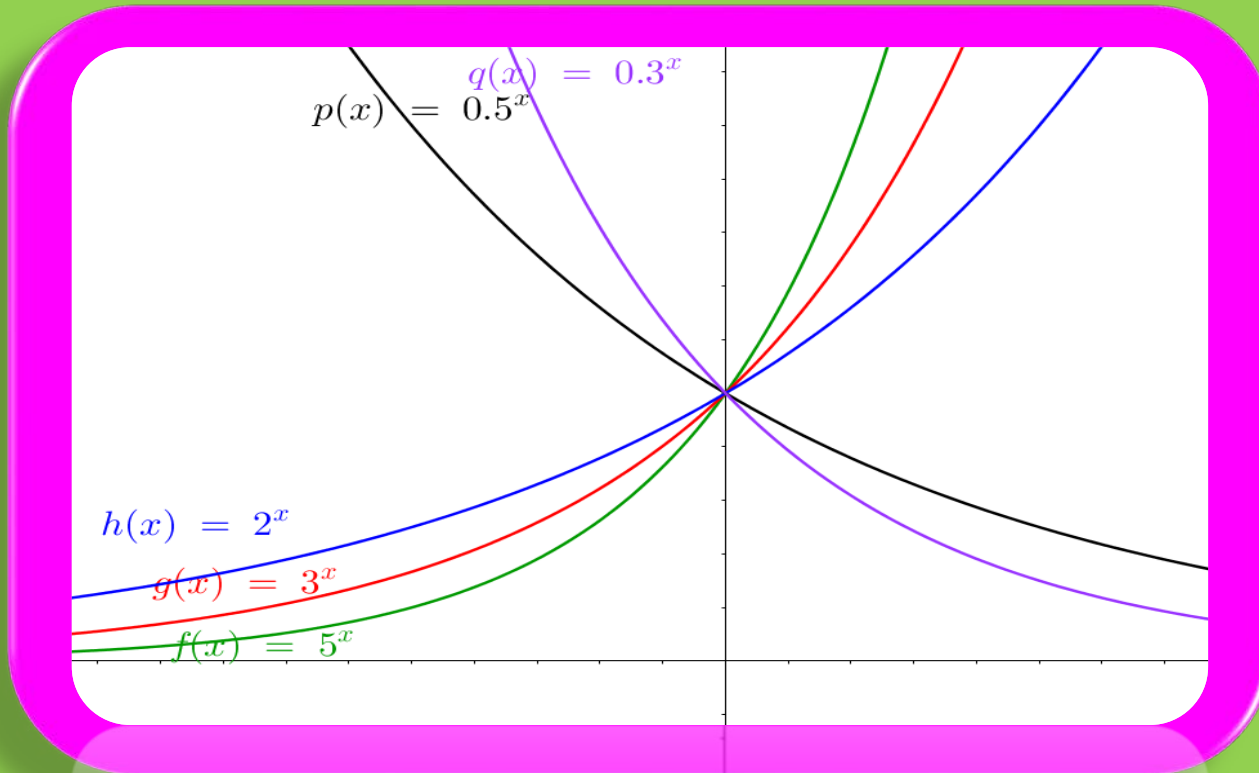
1 mark

Golden Rules

When $x > 0$, $5^x > 3^x > 2^x > 0.5^x > 0.3^x$

When $x = 0$, $5^x = 3^x = 2^x = 0.5^x = 0.3^x$

When $x < 0$, $5^x < 3^x < 2^x < 0.5^x < 0.3^x$



Traditional or Online classes

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