GRE QUANT PRACTICE PAPER

^{1.} If $x-pr=qpr$, and $x,p,q,r>0$, what is the value of X?
select
x=qp-q
select
x=q+r
select
x=qp+p
select
x=pq+r
select
x=q+rp

g(x) = 4x - 3

 $h(x) = .25\pi x + 5$

2. If $f(x)=g(h(x))$.	What is f(1)?
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3. Let S be the set of numbers that contains all of values of x such that 2x + 4 < 8. Let T contain



all of the values of x such that -2x + 3 < 8. What is the sum of all of the integer values that belong to the intersection of S and T?

4.

II

Which of the following values of x satisfies the equation

$$\frac{x^3}{1-x^2} = \frac{x}{x^2-1}?$$
I. $x = 0$
II. $x = -1$
III. $x = 1$
Select
II and III only
Select
II, II, and III
Select
III only
Select
II only
Select

I only

5. Let
$$f(x) = 2x^2 - 4x + 1$$
 and $g(x) = (x^2 + 16)^{(1/2)}$. If k is a negative number such that $f(k) = 31$,

then what is the value of $(f(g(k)))$?
select
31
select
-81
select
-35
select
5
select
25
6. Simplify $X_3X_5 - X_2 + (y_2)_2$.
select
X6+Y4
select
x15-x2+y4
select
x8-x2+y2
select
(xy)2
select
$x_8 - x_2 + y_4$
7. Solve for X.
3x = 19

<u>s</u> elect	
3	
<u>s</u> elect	
-2	
<u>s</u> elect	
12	

select
-12
select
2
8. Simplify the following: $\frac{25^{44} - 5^{86}}{12}$
select
452
select
$2 * 5^{23}$
select
12*52
select
$2 * 5^{86}$
select
25224

9. A store sells 17 coffee mugs for \$169. Some of the mugs are \$12 each and some are \$7 each. How many \$7 coffee mugs were sold?

<u>s</u> elect	
8	
<u>s</u> elect	
7	
<u>s</u> elect	
9	
<u>s</u> elect	
10	
<u>s</u> elect	
6	

10. Choose the answer which best simplifies the expression below:

$2n_2 - n_3a_2 - n_2b$

<u>s</u>elect

$2n_2b-n_b-3a_2n_23a_2b$
select
$2n_{2}b_{-}n_{b+3a_{2}n_{2}3a_{b}}$
select
$2n_{2}b_{+}n_{b+}3a_{2}n_{2}3a_{2}b_{-}$
select
$2n_{2}b_{-}n_{b+3a_{2}n_{2}3a_{2}b}$
select
$-2n_2b-n_b-3a_2n_23a_2b$
11. Solve for X:
$1x - \sqrt{4}$
select
±116
select
116
select
4
select
14
select
$\overline{\overline{16}}$
12. Simplify the following expression: $60 - \sqrt{+40} - \sqrt{+10} - \sqrt{-10}$
select
$\overline{215} - \sqrt{+220} - \sqrt{-1}$
select
$\overline{25}$
select
$215 - \sqrt{+310} - \sqrt{-10}$
select
525

<u>s</u>elect

<u>415</u>--√+55-√

13. Convert 1.08 to a mixed number fraction. Then simplify your answer.

select
112
select
810
select
116100
select
1225
select
1810
14. What is 0.26 of 113 ?
select
0.002
select
0.02
select
2
select
0.0002
select
0.2

Quantity A: 15x+12y

Quantity B: 15y+12xxy

15. Which of the following is true?

<u>s</u>elect

The two quantities are equal.

<u>s</u>elect

Quantity B is larger.

<u>s</u>elect

Quantity A is larger.

<u>s</u>elect

The relationship between the two quantities cannot be determined.