Mathematics Form 4 : Operations on Sets

Name : .....

1. Find the union of sets for each of the following.

a) $A = \{2, 4, 6, 8, 12\}$
$B = \{4, 8, 10, 12\}$
$C = \{1, 3, 4, 8]$

$A \cup B =$

$B \cup C =$

$A \cup C =$

$A \cup B \cup C =$

b) $P = \{a, b, g, i, s, t, y\}$
$Q = \{b, d, r, t, z\}$
$R = \{a, e, s, t\}$

$P \cup Q =$

$Q \cup R =$

$P \cup R =$

$P \cup Q \cup R =$

c) $\xi = \{x: 1 \leq x \leq 10, x \text{ is an integer}\}$
$M = \{x: x \text{ is a multiple of } 3\}$
$N = \{x: x \text{ is an even number}\}$

$\xi =$

$M =$

$N =$

$M \cup N =$

$n(M \cup N) =$

$(M \cup N)' =$

$n(M \cup N)' =$

d) $\xi = \{x: 10 \leq x \leq 20, x \text{ is an integer}\}$
$S = \{x: x \text{ is divisible by } 3\}$
$T = \{x: x \text{ is an odd number}\}$

$\xi =$

$S =$

$T =$

$S \cup T =$

$n(S \cup T) =$

$(S \cup T)' =$

$n(S \cup T)' =$