

$$\frac{\quad}{22+2} = \frac{\quad}{24}$$

1. Which sets does each of the following belong to (**N, W, Z, Q, Q'** and **R**): [4]

a) 3 _____

b) $-5.\bar{3}$ _____

c) π _____

d) 0 _____

2. Given the set {0,1,3,4,7,9} [3]

a) How many elements are in the set? _____

b) Is the set {1,2,3} a subset? _____

c) Is the set { } a subset? _____

3. Determine the limit for each sequence (if there is one). [3]

a) 5.12, 5.1212, 5.121212, ... b) 3,6,12,24,... c) -10, -2, -0.4, -0.08, ...

4. Evaluate. [12]

a) $2 - 5$ b) $-2 + (-1)$ c) $(-2)(-6)$ d) $\frac{-24}{4}$

e) $2 - 3 \times 4^2$

f) $2 + 3[4 - (3)(-2)]$

g) $\frac{5 - 2(-3) + (-1)}{-(16) \div 4(-2)}$