

Name: _____

MA 5320 Quiz 1

1.3: 3,7,8,10

1.4: 3

1.5: 1, 2, 3, 4, 13

1.6: 1, 6, 8, 14

1. compute the following:

(a) $\bigcap_{n=1}^{\infty} [n, \infty)$

(b) $\bigcap_{n=1}^{\infty} \left[\frac{-1}{n}, 1 + \frac{1}{n} \right]$

(c) $\bigcap_{n=1}^{\infty} \left(\frac{-1}{n}, 1 + \frac{1}{n} \right)$

(d) $\bigcup_{n=1}^{\infty} \left[\frac{-1}{n}, 1 + \frac{1}{n} \right]$