

Exam I Answers  
Math 126 E Autumn 2016

1.  $R\left(-\frac{7}{4}, \frac{11}{2}, \frac{9}{4}\right)$

2. (a)  $\theta = \frac{\pi}{3}$ ; (b)  $\left(0, 0, \frac{9}{\sqrt{5}}\right)$

3. (a)  $\overrightarrow{BC} = \langle -10, 0, 0 \rangle$ ; (b) area = 40; (c)  $F(3, 11, 15)$

4. i. D    ii. C    iii. B    iv. A

5. (a)  $x = -1, y = -1 + t, z = 1 - 2t$ ; (b)  $\kappa(-1) = \frac{18}{5^{3/2}}$