

13-5**Practice*****Coordinates in Space***

Geometry 1 -- Q4HW6

All work on loose leaf.

Graph the rectangular solid that contains the given point and the origin as vertices. Label the coordinates of each vertex.

1. $E(4, 6, -2)$

2. $R(-3, -5, 4)$

Determine the distance between each pair of points. Then determine the coordinates of the midpoint M of the segment joining the pair of points.

3. $Y(-5, 1, 2)$ and $Z(3, -3, 1)$

4. $E(4, 2, 0)$ and $F(3, 2, -2)$

5. $B(-2, -2, -3)$ and $C(1, -3, 0)$

6. $H(2, 0, -3)$ and $I(4, -1, 5)$

7. Find the surface area of the rectangular prisms you graphed in problems 1 and 2.

8. Find the geometric means of the following pairs of numbers:

(a) 8, 21

(b) 12, 30

(c) 2, 36

9. Find the total amount of money you have at the end of 7 years if you invested \$25,000 at 6.5% interest compounded weekly.