Precalculus Homework Lecture 7

1. Draw a coordinate system by hand roughly. Plot the points. Determine in which quadrant is the point located. The answer key has not been proofread, use with caution.

(a) (3,2).

(d) (0,0). answer: Quadrant I

(f) (2,0). answer: Quadrant I and II

(g) (2, -3).

(b) (-1,1).

answer: lies in all Quadrants

answer: Quadrant III

answer: Quadrants I and IV

(c) (0,1).

(e) (-3, -2).

answer: Quadrant IV

2. Find the distance between the indicated points. The answer key has not been proofread, use with caution.

(a) (2,3) and (-1,2).

 01^{1} ijansur (d) (-1, -2) and (2, -4).

 $\mathbb{Z}^{\wedge_{\mathcal{Z}}}$ is the same (e) (-3,-2) and (-2,4).

(b) (1,1) and (-1,-1).

answer: $\sqrt{13}$

(c) (0,0) and (3,4).

answer: $\sqrt{37}$

answer: 5

3. Find the midpoint of the segment between the indicated points. The answer key has not been proofread, use with caution.

(a) (2,3) and (-1,2).

answer: $\left(\frac{3}{2}, 2\right)$

 $(\frac{7}{2},\frac{7}{1})$ und (2,-4).

answeit: $\left(\frac{1}{2}, -3\right)$

(b) (1,1) and (-1,-1).

(e) (-3, -2) and (-2, 4).

(c) (0,0) and (3,4).

answet: $\left(-\frac{5}{2},-1\right)$