

Geometry Worksheet Chapter 13

1. Triangle ABC has vertices A (-5,2), B (1,6) C (7,-4). Find

- a. the perimeter of ABC
- b. the slope of each side of ABC
- c. the slope of the altitude to each side of ABC
- d. the midpoint of each side of ABC

2..Triangle ABC has vertices A(-2,2) B (6,8) and C (4,-1). Find

- a. the equation of AC
- b. the length of AC.
- c. the length of the median to AB
- d. the equation of the altitude to AC.

Answers to Ch 13 worksheet

1.

a. $2\sqrt{13} + 2\sqrt{34} + 6\sqrt{5}$

b. $\frac{2}{3}, \dots, -\frac{5}{3}, \dots, -\frac{1}{2}$

c. $-\frac{3}{2}, \dots, \frac{3}{5}, \dots, 2$

d. (-2,4), (4,1) (1,-1)

e. 7

2.

a. $y = -\frac{1}{2}x + 1$

b. $3\sqrt{5}$

c. (4,-1), (2,5) = $2\sqrt{10}$

d. $y = 2x - 4$