

## Chapter 6 Review

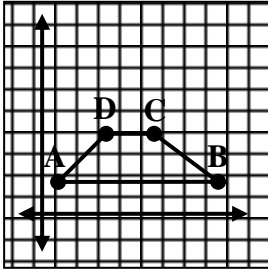
Homework Answers

Pg 342 - #1-23

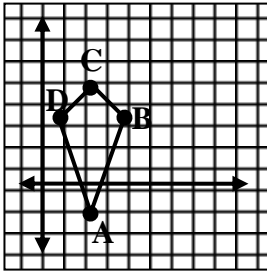
Pg 331 - #1-10

Pg 342

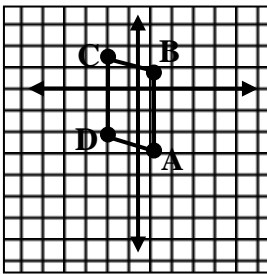
1) Trapezoid



2) Kite



3) Parallelogram



4) Answers will vary – examples:

a) square: (0, 0), (3, 0), (3, 3), (0, 3)

b) parallelogram: (0, 0), (3, 0), (4, 3), (1, 3)

c) rectangle: (0, 0), (3, 0), (3, 5), (0, 5)

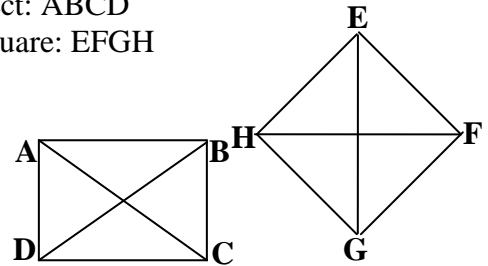
d) trapezoid: (0, 0), (5, 0), (4, 3), (1, 3)

5) 6 in

6) 9 cm

7) Rect: ABCD

Square: EFGH



8)  $x = 100, y = 50, z = 40$

9)  $x = 57, y = 57, z = 66$

10)  $x = 6, y = 5$

11)  $x = 36, y = 108, z = 72$

12) No; both diags must bisect ea other.

13) Yes; if 1 pair opp. sides of a quad. is  $\parallel$  and  $\cong$ , then the quad is a parallelogram.

14) Yes; if both pairs opp. sides of a quad are  $\cong$ , then the quad is a parallelogram.

15) Yes; if both pairs of opp.  $\angle$ 's in a quad are  $\cong$ , then the quad is a parallelogram.

16) (Answers may vary) A square has 4  $\cong$  sides and a kite has no opp. sides  $\cong$ .

17)  $x = 2, y = 1$

18) 90, 30

19) 50, 130

20)  $S(-a, -b), T(-a, b), M(-a, 0), m = \text{undef.}$

21)  $S(0, 0), T(b + c, d), M\left(\frac{b+c}{2}, \frac{d}{2}\right),$

$$m = \frac{d}{b+c}$$

22) 20 ft

23) a)  $a\sqrt{2}$

b)  $a\sqrt{2}$

c) AC

## Chapter 6 Review

Homework Answers

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Pg 331 - #1-10

Pg 331

1)  $x = 51, y = 51$

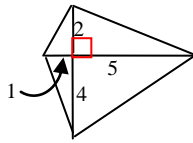
2)  $x = 58, y = 32$

3)  $x = 2, y = 4$

4)  $x = 3$

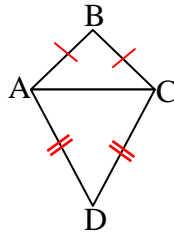
5)  $x = \frac{5}{3}, y = \frac{9}{2}, b = 90$

- 6) False;  
(in figure below #'s are segment lens)



- 7) False; a kite can have  $\cong$  &  $\perp$  diags.

- 8) False;  $\angle BAC$  not  $\cong \angle CAD$



9)  $(n, m)$

10)  $(k, 0)$