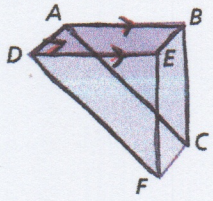
Name: _____

Unit 3 Study Guide Review

(textbook pp. 202-204)

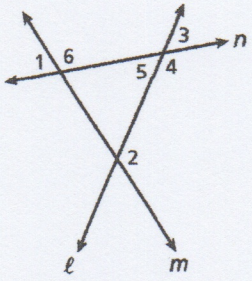
EXERCISES

Identify each of the following.



6. a pair of skew segments
7. a pair of parallel segments
8. a pair of perpendicular segments

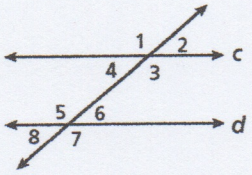
Identify the transversal and classify each angle pair.



10. ∠5 and ∠2
11. ∠6 and ∠3
12. ∠2 and ∠4
13. ∠1 and ∠2

EXERCISES

Use the given information and theorems and postulates you have learned to show that $c \parallel d$.

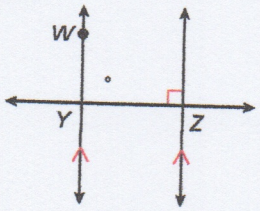


18. $m\angle 4 = 58°$, $m\angle 6 = 58°$
19. $m\angle 1 = (23x + 38)°$, $m\angle 5 = (17x + 56)°$, $x = 3$
20. $m\angle 6 = (12x + 6)°$, $m\angle 3 = (21x + 9)°$, $x = 5$
21. $m\angle 1 = 99°$, $m\angle 7 = (13x + 8)°$, $x = 7$

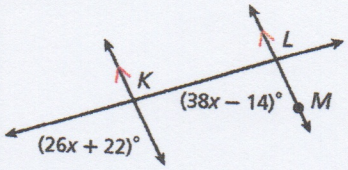
EXERCISES

Find each angle measure.

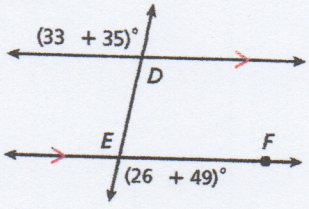
14. $m\angle WYZ$



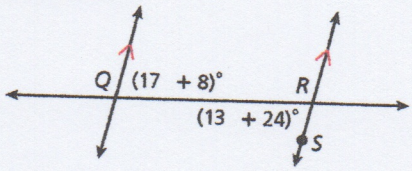
15. $m\angle KLM$



16. $m\angle DEF$



17. $m\angle QRS$



Kuta Software - Infinite Geometry

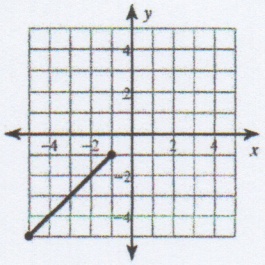
Name_____

The Midpoint Formula

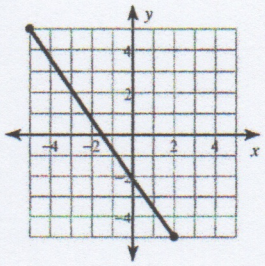
Date_____ Period____

Find the midpoint of each line segment.

1)



2)



Find the midpoint of the line segment with the given endpoints.

9) (–4, 4), (5, –1)

10) (–1, –6), (–6, 5)

11) (2, 4), (1, –3)

12) (–4, 4), (–2, 2)

13) (5, 2), (–4, –3)

14) (–1, 1), (5, –5)

15) (2, –1), (–6, 0)

16) (–3.1, –2.8), (–4.92, –3.3)

17) (–5.1, –2), (1.4, 1.7)

18) (4.9, –1.3), (–5.2, –0.6)

19) (5.1, 5.71), (6, 3.6)

20) (3.1, –2.1), (–0.52, –0.6)

Find the other endpoint of the line segment with the given endpoint and midpoint.

21) Endpoint: (–1, 9), midpoint: (–9, –10)

22) Endpoint: (2, 5), midpoint: (5, 1)

23) Endpoint: (5, 2), midpoint: (–10, –2)

24) Endpoint: (9, –10), midpoint: (4, 8)

25) Endpoint: (–9, 7), midpoint: (10, –3)

26) Endpoint: (–6, 4), midpoint: (4, 8)