Lesson Chapter 3 Midterm Review

Homework Answers

Pg 173 - #1-18, 22-44

1) acute

2) obtuse

3) corresponding angles

4) exterior

5) convex

6) equiangular

7) regular

8) point-slope

9) slope-intercept

10) alternate interior angles

11) $m\angle 2 = 121, m\angle 3 = 59, m\angle 4 = 59$

12) $m\angle 1 = 120$; corr. $\angle$'*s* are $\cong$
$m\angle 2 = 120$; vert. $\angle$'*s* are $\cong$

13) $m\angle 1 = 75$; same side int $\angle$'*s* are suppl.
$m\angle 2 = 105$; alt.int. $\angle$'*s* are $\cong$

14) $m\angle 1 = 55$; same side int $\angle$'*s* are suppl.
$m\angle 2 = 90$; alt.int. $\angle$'*s* are $\cong$

15) Pairs of consec. $\angle$'*s* are suppl. because the sides of the quad. are transversals & the int. $\angle$'*s* are on same side of the transv.

16) 20

17) 20

18) 24

22) 61; scalene, acute

23) $x = 60$; $y = 60$; equilateral, acute

24) $x = 45$; $y = 45$; isosc., right

25) 55; acute

26) 30; right

27) 3; acute

28) 8; obtuse

29) One $\angle$ is 90; the remaining 2 are compl.

30) 120; 60

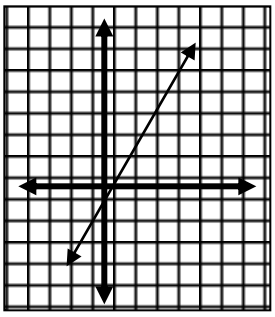
31) 135; 45

32) 144; 36

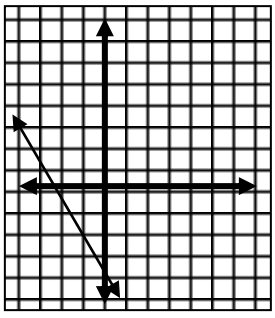
33) 165; 15

34) 360

35) $m = 2$; y-int. = -1



36) $m = -2$; point = (-5, 3)



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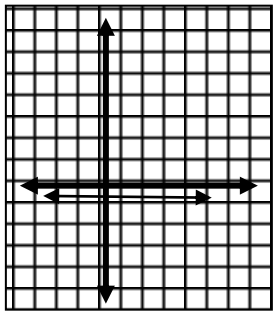
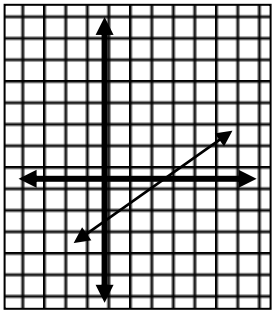
37)



38)



39) $x = 6$

40) neither

41) ||

42) $\perp$

43) ||

44) 0; the diff of the *y*-coords is always zero.