

Chapter 3 Review

Homework Answers

Pg 157 - #70-80 Pg 170 - #41-47

Pg 164 - #1-10 Pg 176 - #3-14, 19, 20, 22-28

Pg 157 - #70-80

70) 1260

71) 540

72) 1620

73) 2160

74) Yes

75) No; parallel lines never intersect, but they are not skew.

76) No; all obtuse Δ 's have 2 acute \angle 's

77) $a = 5$; $m\angle MPR = 30$

78) $a = 4$; $m\angle MPR = 56$

79) $a = 2$; $m\angle QPR = 8$

80) $a = 6$; $m\angle MPQ = 21$

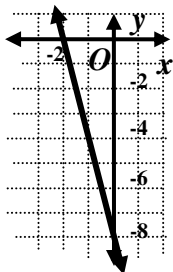
Pg 164 - #1-10

1) octagon; $n = 125$

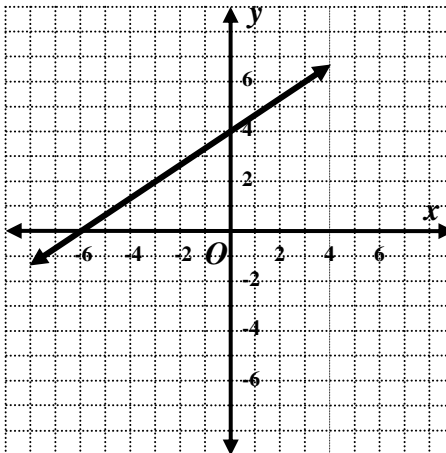
2) hexagon; $x = 122$; $w = 90$

3) quadrilateral; $a = 105$; $m = 116$

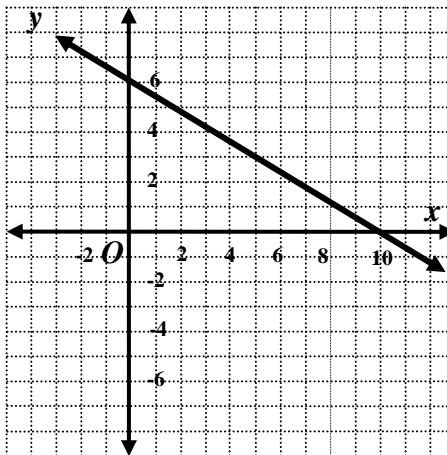
4)



5)



6)



7) slope line $RS = -\frac{2}{5}$

slope line $TV = \frac{5}{3}$; neither

8) slope line $RS = 1$

slope line $TV = -1$; \perp

9) slope line $RS = -\frac{5}{4}$

slope line $TV = \frac{4}{5}$; \perp

10) slope line $RS = \frac{2}{9}$

slope line $TV = \frac{2}{9}$; \parallel

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Pg 170 - #41-47

41) No; the slopes are different

42) No; the slopes are different

43) Yes; the slopes are both $-\frac{1}{3}$

44) 10

45) 8.9

46) line EB

47) line DF

7) yes

8) yes

9) no

10) no

11) 5

12) 25

13) 6

14) 75

19) a) Given

b) Corr. \angle 's are \cong

c) Given

d) Trans. POC or Subst. POC

e) If corr. \angle 's are \cong then lines are \parallel

Pg 176 - #3-14, 19, 20, 22-28

3) $m\angle 1 = 65$; corr. \angle 's are \cong
 $m\angle 2 = 65$; vert. \angle 's are \cong

4) $m\angle 1 = 85$; alt. int. \angle 's are \cong
 $m\angle 2 = 110$; same-side int.
 \angle 's are suppl.

5) $m\angle 1 = 85$; corr. \angle 's are \cong
 $m\angle 2 = 95$; same-side int. \angle 's are
suppl.

6) $m\angle 1 = 70$; corr. \angle 's are \cong
 $m\angle 2 = 110$; same-side int.
 \angle 's are suppl.

20) $y + 1 = -5(x - 3)$
or $y = -5x + 14$

22) 109

23) $x = 85$; $y = 100$; $z = 100$

24) \perp

25) \parallel

26) neither

27) \perp

28) 30