

Answers to most of worksheet answers from this unit are on the website scaseyjones.com.

See the homework answers link.

p. 229 #3, 5, 7, 8, 10-13, 17, 18, 22

3. All angles are either 30° or 150°
5. $m\angle 1 = 41^\circ$
7. No $\because x = 25$
8. $m\angle X = 70^\circ$; $m\angle W = 70^\circ$
10. $m\angle 8 = 150^\circ$
11. $\angle 2 \cong \angle 5$
12. $(-2, 4)$
13. $x = 19.72$; $m\angle 1 = 42.2008$
17. Yes, $m\angle DAB = 60^\circ$
18. Lines m and n have the same slope thus they are parallel.
22. $m\angle 1 = 70^\circ$

p. 219 #1, 2, 4, 5, 7-9, 11, 15-18

1.
 - a) Corresponding angles are congruent therefore lines are parallel
 - b) Alternate interior angles are congruent therefore lines are parallel
 - c) Alternate exterior angles are congruent therefore lines are parallel
2.
 - a) Consecutive exterior angles are supplementary therefore lines are parallel
 - b) Two lines perpendicular to the same lines are parallel
 - c) Consecutive interior angles are supplementary therefore lines are parallel
4. $\overline{PQ} \parallel \overline{SR}$; alternate interior angles are congruent therefore lines are parallel
5. $\overline{BC} \parallel \overline{DE}$; corresponding angles are congruent therefore lines are parallel
7. $m \approx 0.4$
8. $\overline{RA} \parallel \overline{TP}$; consecutive interior angles are supplementary therefore lines are parallel
9. $\overline{BE} \parallel \overline{DF}$; alternate exterior angles are congruent therefore lines are parallel
11. $0 < x < 110$
15. No, because the slopes are not equal
16. $x = 26$; $x + 84 = 110$ so $m \parallel n$ because corresponding angles are congruent therefore lines are parallel
17. $16 < x < 66$
18. Yes, if $x = 14.5$ then consecutive interior angles are supplementary and thus $p \parallel q$

