

p. 152 #8, 11, 20, 25 (problems only – see website [scaseyjones.com](http://scaseyjones.com) for proof answers)

8.  $6 < x < 18$
11. No,  $3x = 90 \Rightarrow x = 30 \therefore BC = 50, AC = 40$
20.  $P_{\triangle ABC} = 77$  cm
25.  $x = 22; y = 8; m\angle F = 60^\circ$

p. 694 #1–3, 5, 7–12

1.  $80 < m\angle 1 < 180$
2. b and d
3.  $\overline{PR}; \overline{PQ}$
5. a)  $\overline{AB}$   
b)  $\overline{WZ}$
7. The other
8.  $8 < x < 20$
9.  $46 < m\angle B < 70$
10. a)  $\overline{AD}$   
b)  $\overline{XY}$
11. R, Q, and P
12. a)  $55 < x < 110$   
b)  $0 < x < 90$   
c)  $0 < x < 20$   
d)  $x = 7.5\sqrt{3}$

p. 698 #1, 2, 4, 17

1.  $\overline{AC}$
2.  $\angle R$
4.  $XZ > AB$
17.  $\angle XZW, \angle X, \angle XWY, \angle Y, \angle XWZ$



**WS 32 – Review – Writing Equations of Lines**

1.  $y = 4x - \frac{7}{2}$
2.  $y = -\frac{2}{3}x + 3$
3.  $y = 2x - 4$
4.  $y = -2x + 9$
5.  $y = \frac{1}{4}x + 1$
6.  $y = -x - 2$
7.  $y = x - 7$
8.  $y = -2$
9.  $y = 2x - 4$
10.  $y = -3x + 5$
11.  $y = -2x + 3$
12.  $x = 5$
13.  $y = 8$
14.  $y = 1$

**p. 394 #1a-d**

1. a) 2  
b) 4  
c) 5  
d) 10

**p. 172 #4, 5**

4. (1,4) (6,2) (1,1)
5. (7,2)



**p. 703 #1–3, 6, 7, 9–11a, 12, 19**

1.  $\angle A, \angle B, \angle C$
2. a)  $\overline{WZ}$ , Hinge Theorem  
b)  $\overline{AB}$ , hypotenuse is the longest side  
c)  $\overline{QR}$ , from size of angles in  $\triangle PQR$
3. a)  $\angle CBD$ , converse of Hinge theorem  
b)  $\angle X$ , base angles theorem  
c)  $\angle 1$  Exterior Angle Inequality Theorem
6. a)  $\overline{AE} \cong \overline{AB}; \overline{ED} \cong \overline{EC}$   
b)  $\overline{BE}$   
c) Hypotenuse  
d)  $\overline{DE}$   
e)  $\overline{BE}$
7. a
9.  $\overline{BC}, \overline{AC}, \overline{AB}$
10.  $60 < x < 150$
11. a)  $\overline{AB}$
12.  $x = 5$
19.  $\overline{AC}, \overline{AB} \cong \overline{BC}, \overline{AC}, \overline{AD}, \overline{BD}$

**p. 206 #9, 18, 19 (see scaseyjones.com for proofs)**

9. a) (9,4)  
b)  $1/2$   
c) No; different slopes  
d) -2  
e) 7 units
18. The slopes of  $\overline{EF}$  and  $\overline{EH}$  would not be perpendicular
19.  $m\angle Q = 90^\circ$



**p. 644 #5, 6, 9, 15, 17**

5. a) 10  
b) (7, 2)  
c)  $\frac{4}{3}$
6. a)  $\frac{4}{3}$   
b) (1, 6)  
c)  $-\frac{3}{5}$   
d)  $\sqrt{34}$   
e)  $-\frac{3}{4}$   
f)  $\frac{1}{8}$   
g)  $-\frac{3}{4}$
9. a)  $y = 2x + 1$   
b)  $x = 2$   
c)  $x = -5$   
d)  $y = 3x - 2$   
e)  $y = \frac{1}{2}x - 2$   
f)  $y = 3x - 7$   
g)  $y = \frac{1}{2}x - 3$
15. (10, 5)
17. a)  $2\sqrt{5}$   
b)  $y = 2x - 10$   
c)  $y - 4 = -5(x - 7)$   
d)  $y - 8 = -5(x - 9)$   
e)  $y - 8 = \frac{1}{5}(x - 9)$

