

4-7 # 37-49 odd pg 299

$$37. S = \frac{9+11+16}{2} \quad S = 18$$

$$A = \sqrt{18(18-9)(18-11)(18-16)} \quad A = \sqrt{2268} \quad A = 47.6 \text{ cm}^2$$

$$39. S = \frac{58+40+63}{2} \quad S = 80.5$$

$$A = \sqrt{80.5(80.5-58)(80.5-40)(80.5-63)}$$
$$A = \sqrt{1283723.438} \quad A = 1133.0 \text{ ft}^2$$

$$41. S = \frac{8+15+8}{2} \quad S = 15.5$$

$$A = \sqrt{15.5(15.5-8)(15.5-15)(15.5-8)}$$

$$A = 20.9 \text{ yd}^2$$

$$43. a. S = \frac{105+110+70}{2} \quad S = 142.5$$

$$A = \sqrt{142.5(142.5-105)(142.5-110)(142.5-70)}$$

$$A = 3548.4 \text{ Steps}^2$$

$$S = \frac{41+75+110}{2} \quad S = 113$$

$$A = \sqrt{113(113-41)(113-75)(113-110)}$$

$$A = 963.1 \text{ Steps}^2$$

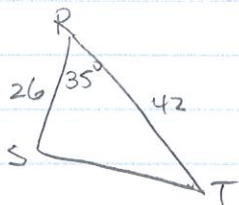
Total with vacant lot

$$3548.4 + 963.1 = 4511.5 \text{ Steps}^2$$

$$b. 4511.5(1.8)^2 = 14,617.3 \text{ ft}^2$$

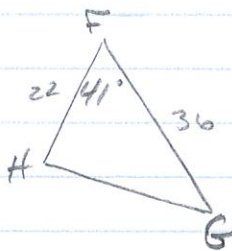
$$45. A = \frac{1}{2}(13)(8) \sin 98$$

47. $A = \frac{1}{2} (42)(26) \sin 35$



$$A = 313.2 \text{ ft.}^2$$

49.



$$A = \frac{1}{2} (22)(36) \sin 41$$

$$A = 259.8 \text{ in}^2$$