

# Lesson 4.1 Answer Sheet

- ① Obtuse                      ⑦ Obtuse  
② Acute                        ⑧ Right  
③ Right                        ⑨ Acute  
④ equiangular              ⑩ Acute  
⑤ Acute                        ⑪ Right  
⑥ Right                        ⑫ equiangular
- ⑬ equilateral              ⑭ isosceles              ⑮ scalene  
⑯ scalene                    ⑰ ~~scalene~~              ⑲ scalene  
⑱ scalene                    ⑳ equilateral

$$\begin{aligned} 22) \quad 2x - 7 &= 4x - 21 \\ -2x + 21 &-2x + 21 \\ 14 &= 2x \\ \boxed{x = 7} \end{aligned}$$

$$\begin{aligned} AB &= 2(7) - 7 & AC &= (7) - 3 \\ \boxed{AB = 7} & & \boxed{AC = 4} \\ \boxed{BC = 7} & & \end{aligned}$$

$$\begin{aligned} 23) \quad 6x + 1 &= 3x + 10 \\ -3x - 1 &-3x - 1 \\ 3x &= 9 \\ \boxed{x = 3} \end{aligned}$$

$$\begin{aligned} HF &= 6(3) + 1 \\ \boxed{HF = 19} \\ \boxed{FG = 19} \\ \boxed{HG = 19} \end{aligned}$$