1. Given that $F_{19} = 4,181$ and $F_{20} = 6,765$, find

   (a) F_{21}

   $$F_{21} = F_{20} + F_{19} = 6765 + 4181 = 10,946.$$

   (b) F_{18}

   $$F_{20} = F_{19}+F_{18} \Rightarrow F_{18} = F_{20}-F_{19} = 6,765-4,181 = 2,584.$$

2. Given that $F_{31} = 1,346,269$ and $F_{33} = 3,524,578$, find

   (a) F_{32}

   $$F_{33} = F_{32}+F_{31} \Rightarrow F_{32} = F_{33}-F_{31} = 3,524,578-1,346,269 = 2,178,309.$$

   (b) F_{34}

   $$F_{34} = F_{33}+F_{32} = 3,524,578+2,178,309 = 5,702,887.$$