

## 5. CONCLUSION

From the result and discussion in the previous chapter, it can be drawn that the conclusion of this study is as follows,

1. The value of the results from this study can be considered relatively true due to the minuscule difference between Finite Element Method and Moment-Area Method.
2. Cobb Angle was successfully obtained at the ideal scoliosis zone with a value less than  $4^\circ$  for X-Y plane (left-right side) and less than  $7^\circ$  for Z-Y plane(front-back side) according to the input given.
3. The correction forces at the mid-points of thoracic vertebrae decrease when the number of screws installed increases.
4. The distributed corrective force with middle apex position T6 is the best, with the lowest of the highest corrective force generated.

