MATE 3032 assignment 5b

Problems 31, 32.

Choose two of exercises 4–22 p.491, involving two different types of trigonometric substitution (some of these problems do not require trigonometric substitution). This is a repeat of the previous assignment, as most responders did not follow the instructions. You must follow to the letter the steps shown in CC10, even indicating "step 1", step 2, etc… Your solution will include the appropriate figure, along with the two lines labelled (1), including the word "Then", followed later by equating a square root to an absolute value (line labelled (2)), followed later by the word "since", and this in a clearly legible sequence, identical in layout to the one shown. The integral symbol $\int$ does not reappear until step 3. The purpose is not so much to obtain the right value, but to copy the given style. Form over substance. For correct notation, don't forget to consult again CC8.

The outcome: one perfect solution: one bonus point (out of 100 for the course). Two perfect solutions: two bonus points. Neither: one point penalty.