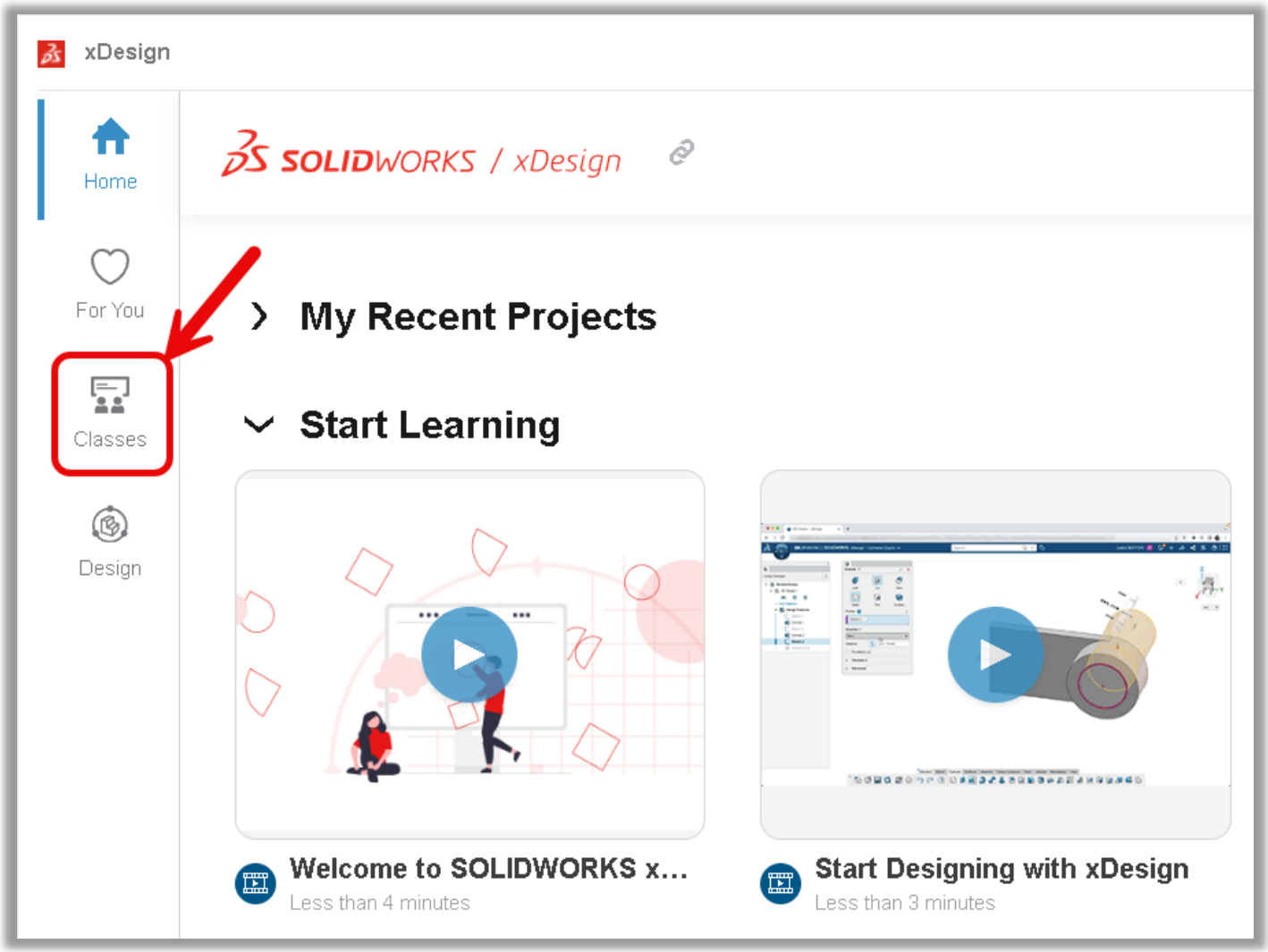
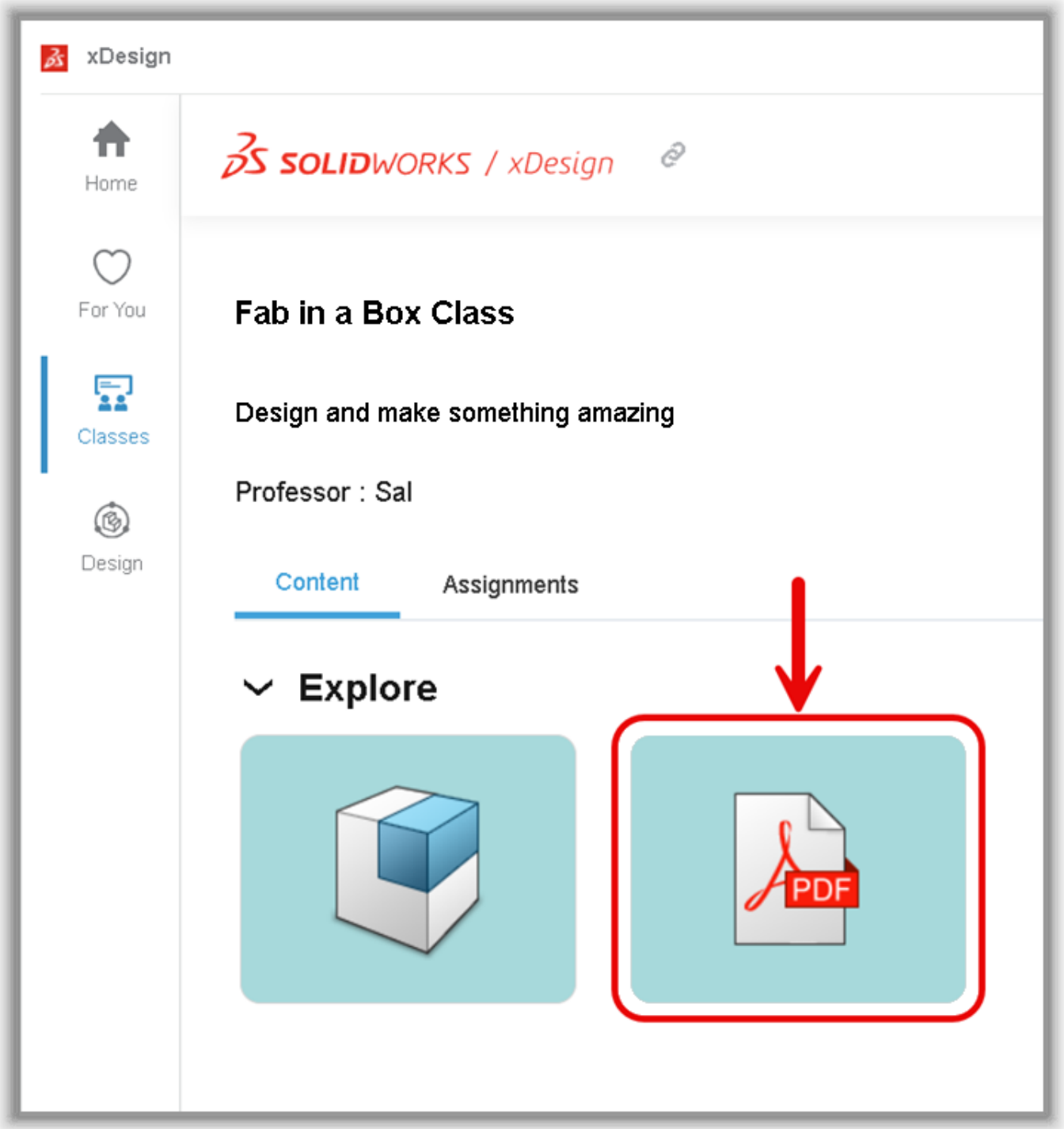
Design and fabricate your own custom pinwheel.

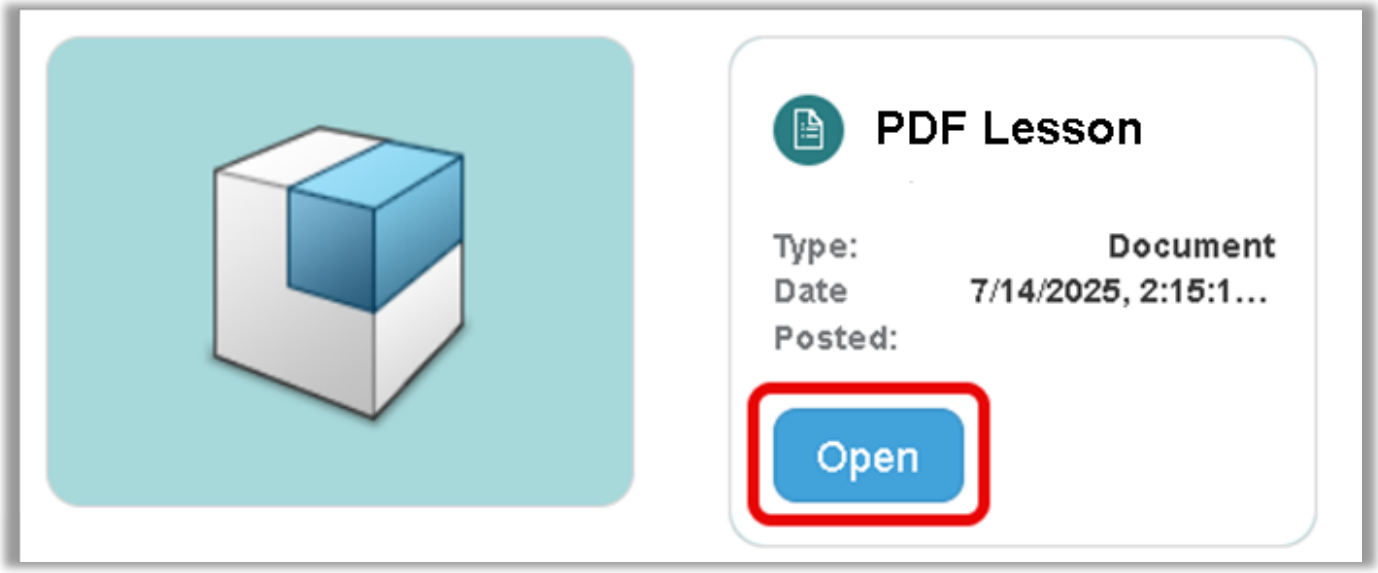
1. Click the **Classes** tab



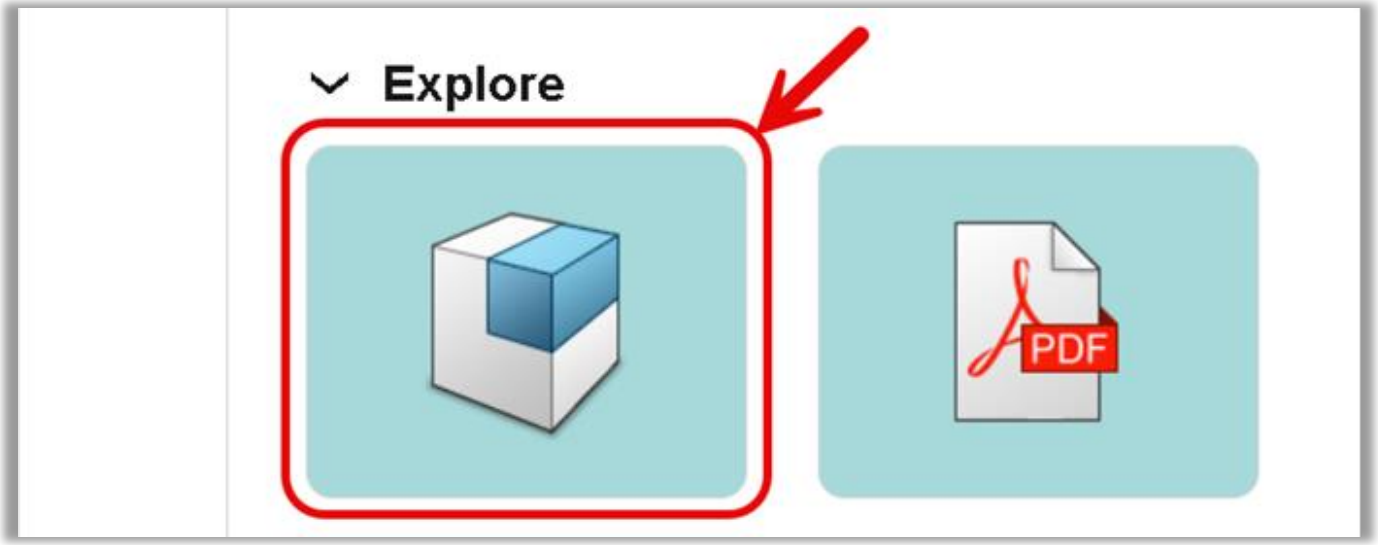
2. Hover over the PDF tile



3. Click **OPEN**



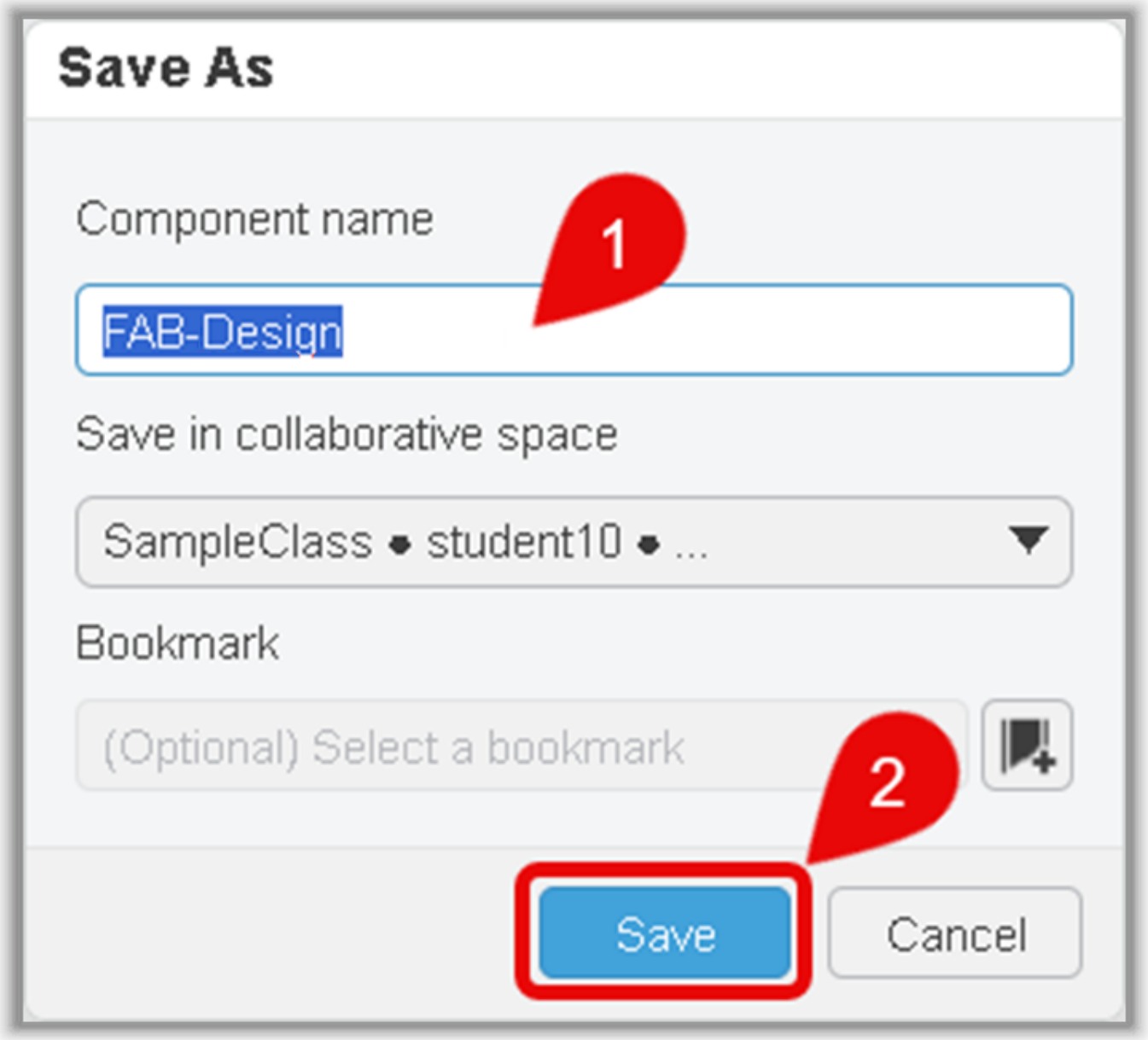
4. Hover over the "**Pinwheels - Custom Designs & Decorations"** tile



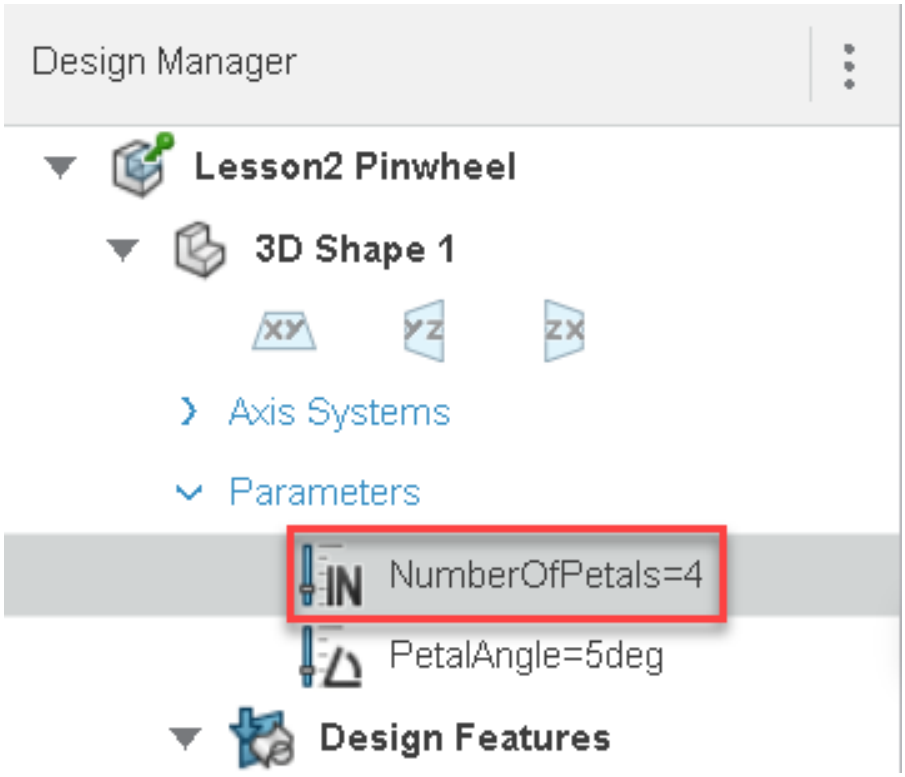
5. Click **OPEN**

6. Click **Save As** on the Standard tab of the Action Bar

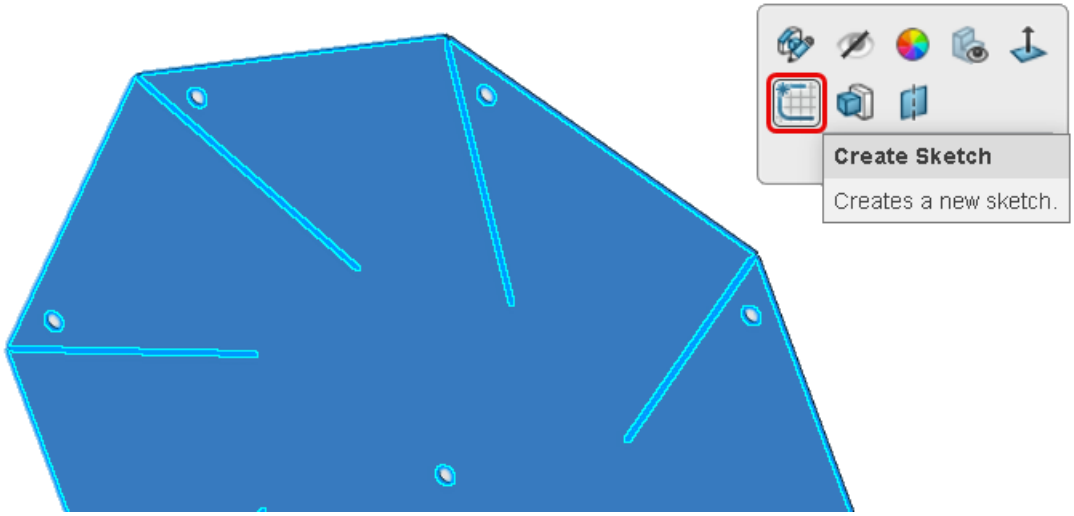
7. [1] Type a name for your design, then [2] click **Save**



8. Change the “NumberOfPetals” parameter and/or the “PetalAngle” parameter in the Design Manager to create the basic shape of your pinwheel

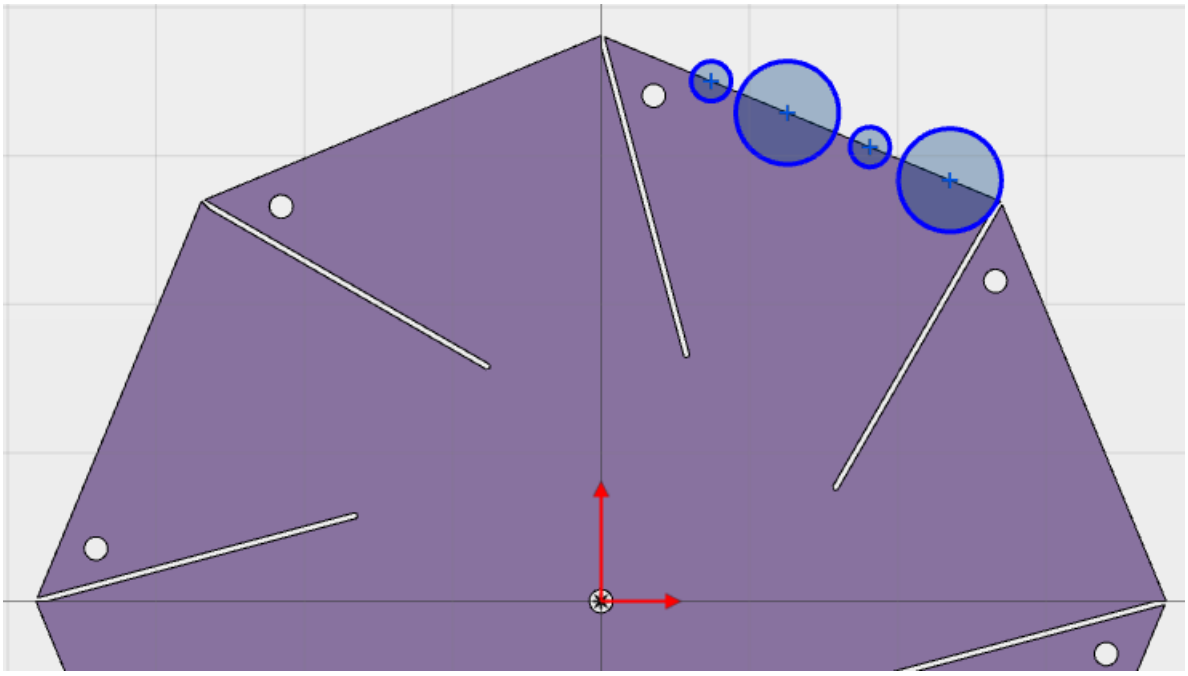


9. Select the large flat face of your pinwheel, then click **Create Sketch**

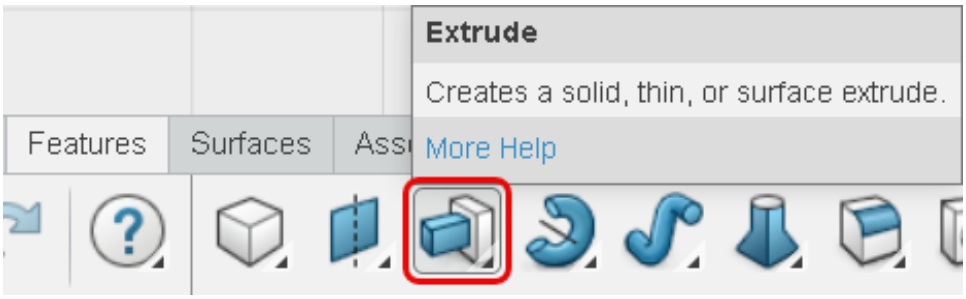


10. Draw any shape you would like to decorate the end of one pinwheel blade

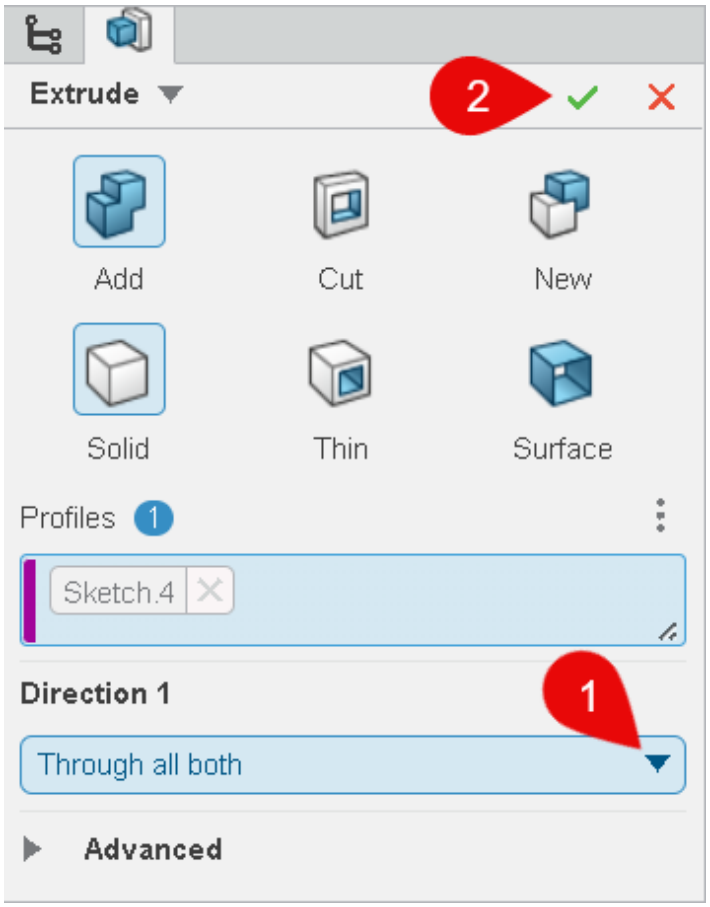
Sample Decoration



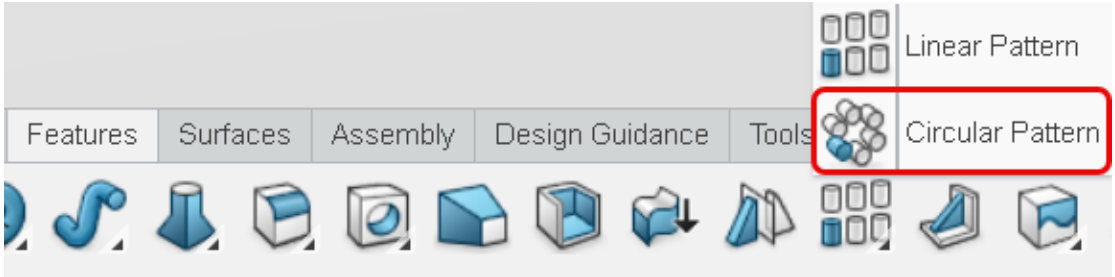
11. Click **Extrude** on the Features tab of the Action Bar



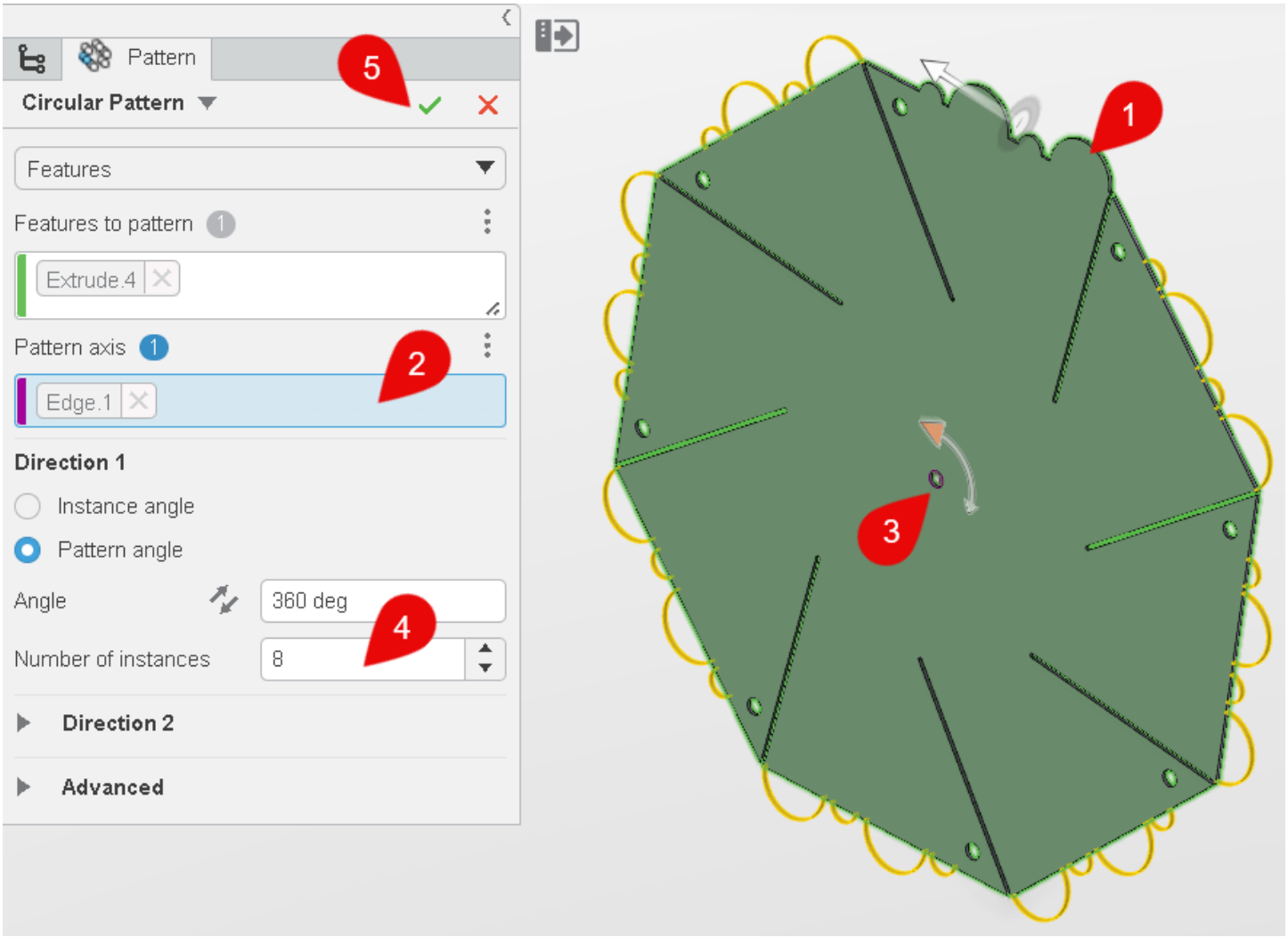
12. [1] Change the Direction 1 end condition to “Through all both”, then [2] click OK



13. Select **Circular Pattern** from the flyout menu on the Features tab of the Action Bar



14. [1] Select a face of the extruded decoration you just created, [2] click in the “Pattern Axis” selection box to give it focus, [3] select the circular edge of the hole at the center of the pinwheel, [4] change the “Number of instances” to match the number of blades on your pinwheel, then [5] click OK

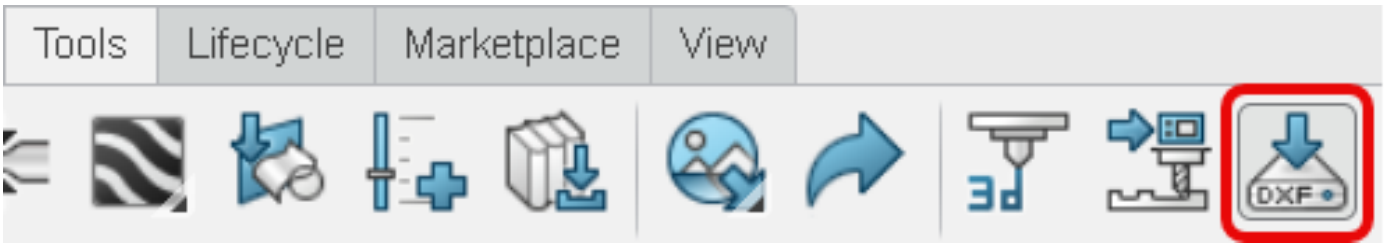


15. Repeat steps 9 through 14 to *add* more decorations to your pinwheel. When you get to step 12 you can set it to “Cut” to *remove* material and create different decorations on your pinwheel

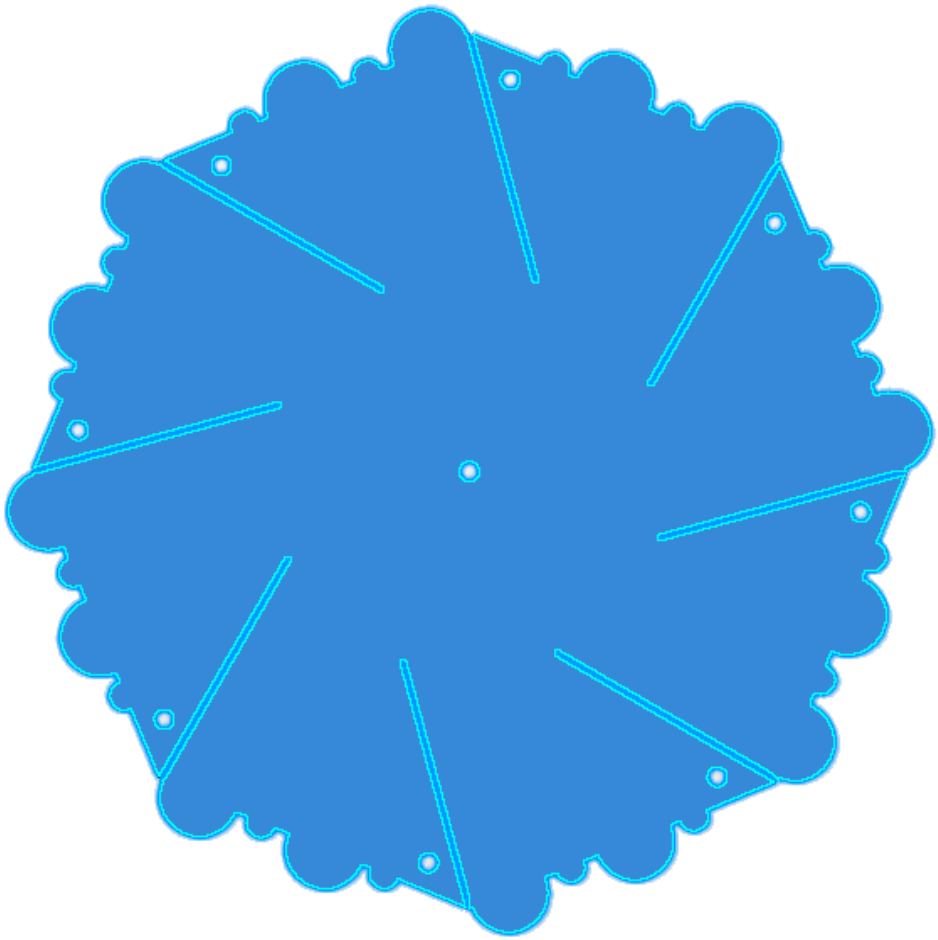
16. Click “Save” on the Action Bar to save your pinwheel

FABRICATE YOUR PINWHEEL

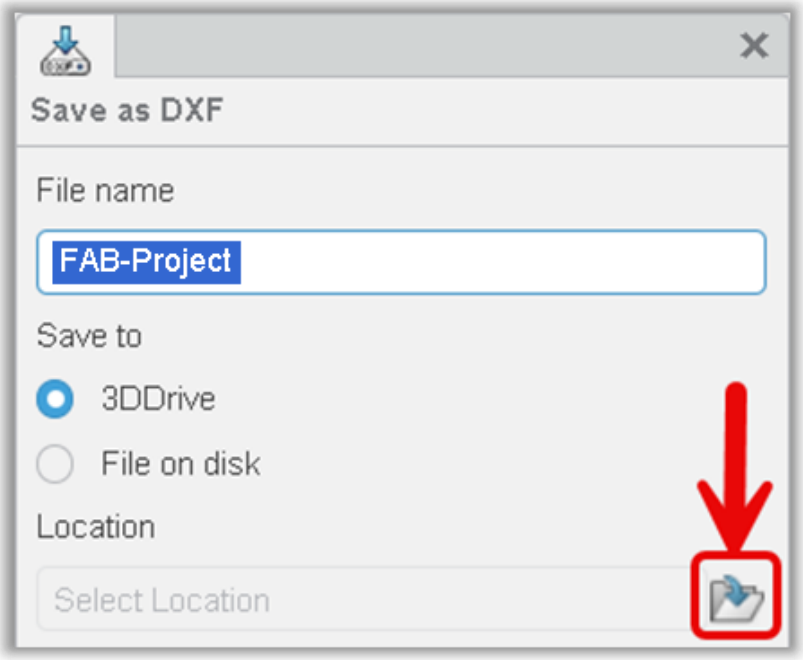
17. Click the **DXF** command on the Tools tab of the Action Bar



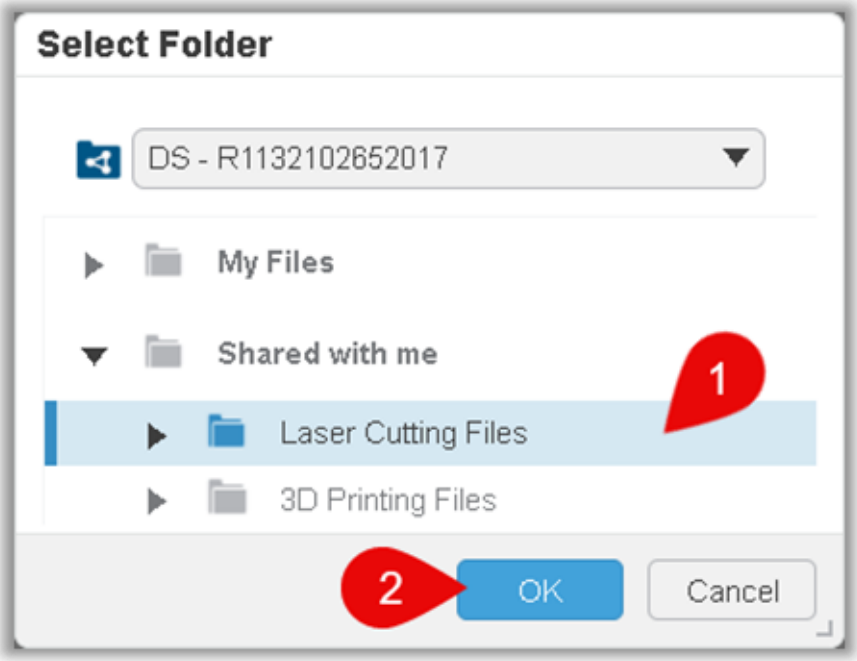
18. Select the large flat face of your pinwheel



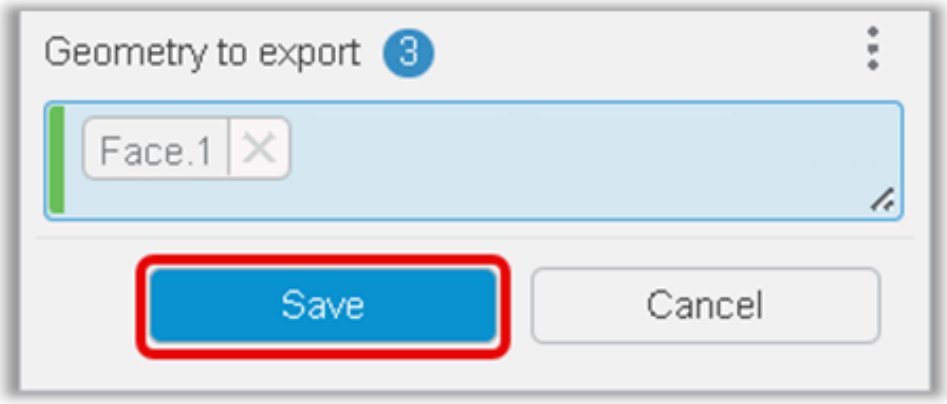
19. Click the Location folder button



20. [1] Select the folder your instructor told you to use to save your files, then [2] click **OK**



21. Click the **Save** button in the Save as DXF dialog



Congratulations!

You're ready to laser cut your pinwheel!

See your teacher for further instruction!