1. Cite 5 methods of the Activity class  
http://developer.android.com/reference/android/app/Activity.html

[onStart()](http://developer.android.com/reference/android/app/Activity.html#onStart()), Called after onCreate(Bundle) — or after onRestart() when the activity had been stopped, but is now again being displayed to the user. It will be followed by onResume().

[onRestart()](http://developer.android.com/reference/android/app/Activity.html#onRestart()), Called after onStop() when the current activity is being re-displayed to the user (the user has navigated back to it). It will be followed by onStart() and then onResume().

[onResume()](http://developer.android.com/reference/android/app/Activity.html#onResume()), Called after onRestoreInstanceState(Bundle), onRestart(), or onPause(), for your activity to start interacting with the user. This is a good place to begin animations, open exclusive-access devices (such as the camera), etc.

[onPause()](http://developer.android.com/reference/android/app/Activity.html#onPause()), Called as part of the activity lifecycle when an activity is going into the background, but has not (yet) been killed. Activity B will not be created until A's onPause() returns, so be sure to not do anything lengthy here.

[onStop()](http://developer.android.com/reference/android/app/Activity.html#onStop()), Called when you are no longer visible to the user. You will next receive either onRestart(), onDestroy(), or nothing, depending on later user activity.

[onDestroy()](http://developer.android.com/reference/android/app/Activity.html#onDestroy()), Perform any final cleanup before an activity is destroyed. *Do not count on this method being called as a place for saving data. Those edits should be committed in either onPause() or onSaveInstanceState(Bundle), not here.*

2. What methods relate to the (option / contect / other) menu in the Activity class?

[onCreateOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#onCreateOptionsMenu(android.view.Menu))() Initializes the contents of the Activity's standard options menu. This is only called once, the first time the options menu is displayed. The default implementation populates the menu with standard system menu items. ([onPrepareOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#onPrepareOptionsMenu(android.view.Menu)), [openOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#openOptionsMenu()), [invalidateOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#invalidateOptionsMenu()), [closeOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#closeOptionsMenu()), [onOptionsMenuClosed](http://developer.android.com/reference/android/app/Activity.html#onOptionsMenuClosed(android.view.Menu)))

[onCreateContextMenu](http://developer.android.com/reference/android/app/Activity.html#onCreateContextMenu(android.view.ContextMenu, android.view.View, android.view.ContextMenu.ContextMenuInfo))() Unlike onCreateOptionsMenu(Menu), this will be called every time the context menu is about to be shown and should be populated for the view. ([openContextMenu](http://developer.android.com/reference/android/app/Activity.html#openContextMenu(android.view.View)), [registerForContextMenu](http://developer.android.com/reference/android/app/Activity.html#registerForContextMenu(android.view.View)), [unregisterForContextMenu](http://developer.android.com/reference/android/app/Activity.html#unregisterForContextMenu(android.view.View)), [onContextMenuClosed](http://developer.android.com/reference/android/app/Activity.html#onContextMenuClosed(android.view.Menu)), [closeContextMenu](http://developer.android.com/reference/android/app/Activity.html#closeContextMenu()))

[onCreatePanelMenu](http://developer.android.com/reference/android/view/Window.Callback.html#onCreatePanelMenu(int, android.view.Menu))() Default implementation of onCreatePanelMenu(int, Menu) for activities. This calls through to the new onCreateOptionsMenu(Menu) method for the FEATURE\_OPTIONS\_PANEL panel, so that subclasses of Activity don't need to deal with feature codes. For creating submenus.

3. How do the classes Activity and ActionBarActivity relate to each others?  
<https://developer.android.com/reference/android/support/v7/app/ActionBarActivity.html>

ActionBarActivity is an indirect subclass of Activity that extends FragmentActivity.

[android.app.Activity](http://developer.android.com/reference/android/app/Activity.html)

↳ [android.support.v4.app.FragmentActivity](http://developer.android.com/reference/android/support/v4/app/FragmentActivity.html)

↳ android.support.v7.app.ActionBarActivity

