

- 1) On screen 1.2, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.
- 2) On screen 1.3, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.
- 3) On screen 1.4, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.
- 4) On screen 1.5, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.
- 5) What can you conclude from these graphs concerning a basic graph of $r = a + a \cos \theta$ and $r = a - a \cos \theta$?

- 6) On screen 1.7, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.

- 7) On screen 1.8, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.

- 8) On screen 1.9, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.

- 9) On screen 1.10, what was the equation? _____
- a) What were the intercepts along the polar axis (x-axis)? _____
 - b) What were the intercepts along the line $\theta = \frac{\pi}{2}$ (y-axis)? _____
 - c) Did the graph go through the pole? _____
 - d) Briefly describe the shape of the graph and its location with respect to the pole.

10) What can you conclude from these graphs concerning a basic graph of $r = a + a \sin \theta$ and $r = a - a \sin \theta$?