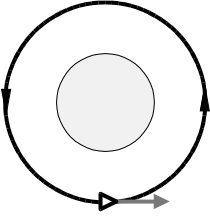
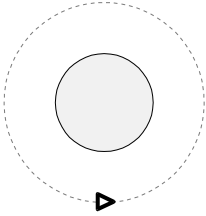
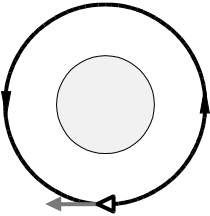
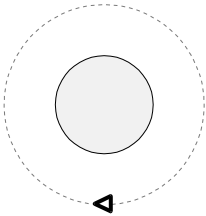
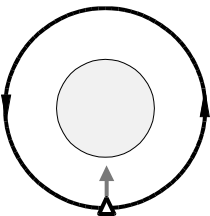
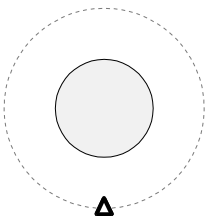
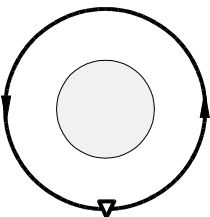
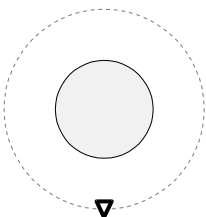
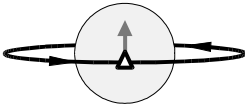
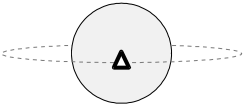
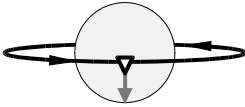


## Orbital Maneuvers

Suppose you start with a spaceship ( $\blacktriangleright$ ) in a circular orbit. For each of the six maneuvers ( $\longrightarrow$ ) shown in the left column, draw in the right column what the resulting new orbit would look like, and explain briefly *why* the result looks the way it does. (Original orbits are shown as dotted lines for reference. Consider what *changes*.)

<p>Prograde Thrust: ("top view" from above north pole)</p> 	<p>1) Result:</p> 
<p>Retrograde Thrust: ("top view" from above north pole)</p> 	<p>2) Result:</p> 
<p>Radial In Thrust: ("top view" from above north pole)</p> 	<p>3) Result:</p> 
<p>Radial Out Thrust: ("top view" from above north pole)</p> 	<p>4) Result:</p> 
<p>Normal Thrust: ("side view" from above equator)</p> 	<p>5) Result:</p> 
<p>Antinormal Thrust: ("side view" from above equator)</p> 	<p>6) Result:</p> 