

Applications of quadratic equations (which graph to a parabola) from 10MAT4:

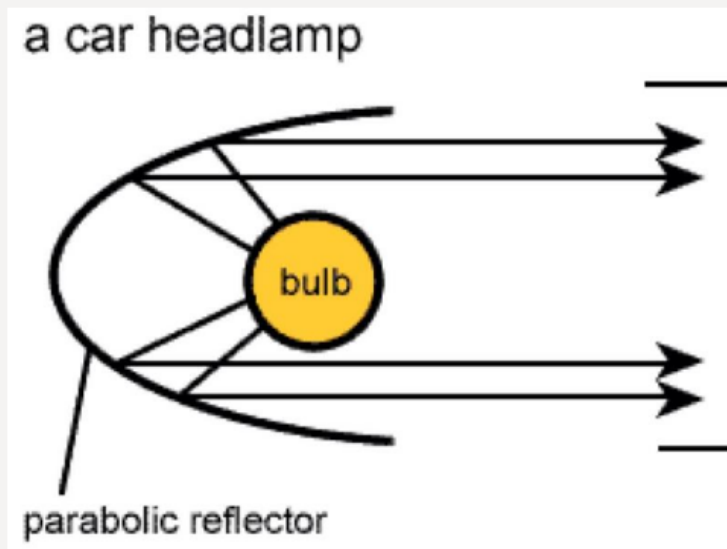
**HayashiKinny, Momo** 5/9 9:56 AM

fountains with water spraying upwards naturally creates parabolas



**Shed, Harvey** 5/9 9:33 AM

Car headlights use parabolas because the light bounces off directly forward no matter what angle it comes from



**Cooper, Lachie** 5/9 9:14 AM

A ball is thrown straight up, from 3 m above the ground, with a velocity of 14 m/s. When does it hit the ground?

$$h = 3 + 14t - 5t^2$$

When you throw a ball (or shoot an arrow, fire a missile or throw a stone) it goes up into the air, slowing as it travels, then comes down again faster and faster ...