1
00:00:08,150 --> 00:00:06,389
when orion gets near the moon lunar

2
00:00:11,110 --> 00:00:08,160
gravity will pull the spacecraft to

3
00:00:13,190 --> 00:00:11,120
about 60 miles above the moon's surface

4
00:00:15,430 --> 00:00:13,200
mission controllers precisely fire the

5
00:00:17,910 --> 00:00:15,440
service module's engines aiming for the

6
00:00:20,630 --> 00:00:17,920
exact altitude or height of a distant

7
00:00:22,950 --> 00:00:20,640
retrograde orbit orion travels for five

8
00:00:24,790 --> 00:00:22,960
days to meet the orbit forty thousand

9
00:00:27,029 --> 00:00:24,800
miles beyond the moon

10
00:00:28,790 --> 00:00:27,039
once at just the right height a second

11
00:00:31,830 --> 00:00:28,800
burn of the service module engines

12
00:00:33,510 --> 00:00:31,840
steadies orion into dro the orbit is

13
00:00:35,430 --> 00:00:33,520

called distant because orion will be

14
00:00:36,790 --> 00:00:35,440
orbiting very high above the moon's

15
00:00:38,950 --> 00:00:36,800
surface

16
00:00:40,069 --> 00:00:38,960
retrograde is just a fancy word for

17
00:00:42,150 --> 00:00:40,079
opposite

18
00:00:43,270 --> 00:00:42,160
the moon travels around the earth in one

19
00:00:44,950 --> 00:00:43,280
direction

20
00:00:46,790 --> 00:00:44,960
orion will go around the moon in the

21
00:00:49,190 --> 00:00:46,800
opposite direction

22
00:00:51,510 --> 00:00:49,200
dro is a stable orbit that's easy for

23
00:00:53,910 --> 00:00:51,520
orion to remain in

24
00:00:56,470 --> 00:00:53,920
once in the orbit orion will travel for