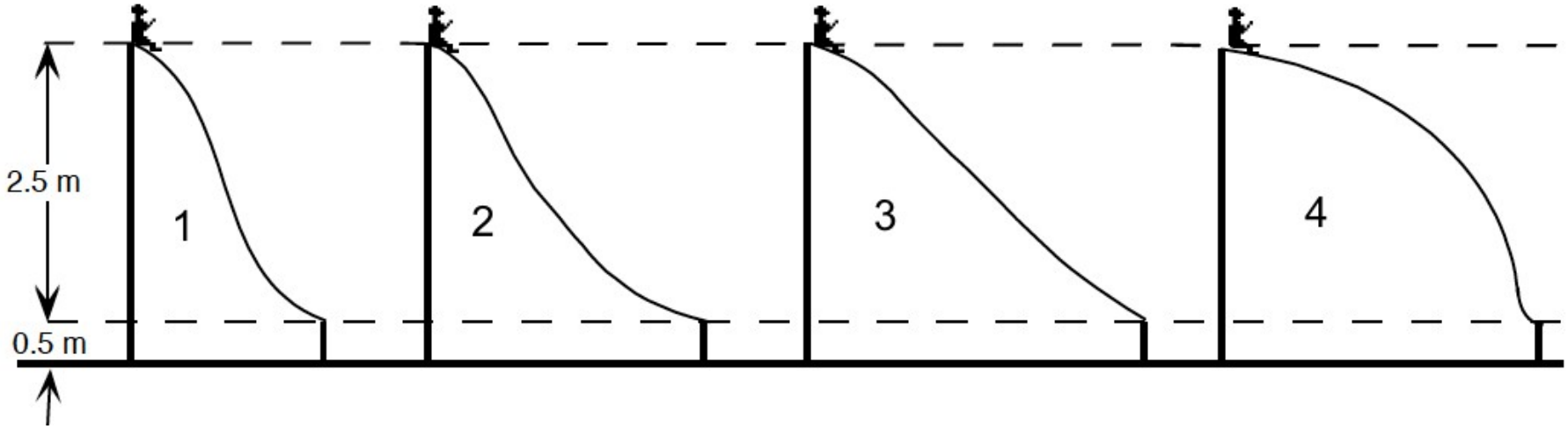
Each row in the following table pairs a force vector with a corresponding displacement resulting in work *W* being done. In which of these rows is the work done zero?


| | $\vec{F}$ | $\Delta\vec{r}$ |
|---|---|---|
| 1. | → | ← |
| 2. | ← | ← |
| 3. | ↑ | → |
| 4. | ↖ | → |
| 5. | ↓ | ↖ |

Each row in the following table pairs a force vector with a corresponding displacement resulting in work $W$ being done. In which of these rows is the work done positive?

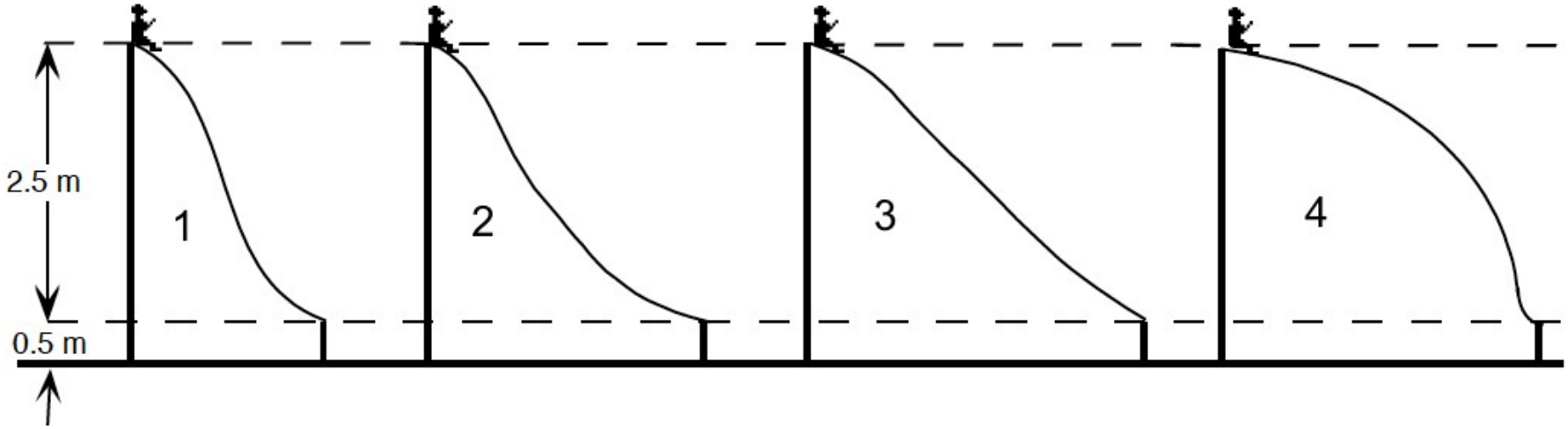

| | $\vec{F}$ | $\Delta\vec{r}$ |
|---|---|---|
| 1. | → | ← |
| 2. | ← | ← |
| 3. | ↑ | → |
| 4. | ↖ | → |
| 5. | ↓ | ↖ |


A young girl wants to select one of the (frictionless) playground slides illustrated below to give her the greatest possible speed when she reaches the bottom of the slide. Which should she choose?




5. It doesn't matter. It would be the same for each.


A young girl wants to select one of the (frictionless) playground slides illustrated below to get her to the bottom of the slide the fastest. Which should she choose?




5. It doesn't matter. It would be the same for each.