# Deriving Labor and Costs Exercise

**Fill in the missing values using the equations you know and also the following information.**

**Firm R, which produces a good, finds a new technology that boosts the productivity of its workers. The firm's fixed costs are $4,000 per unit of output and it hires workers and pays them a wage of $2,000 per worker.**

| Quantity of Labor Employed | Total Product | Average Product of Labor | Marginal Product of Labor | Total Variable Cost | Total Fixed Cost | Total Cost | Average Variable Cost | Average Cost | Marginal Cost |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | XX | XX | | | | XX | XX | XX |
| 1 | 120 | 120 | 120 | | | | | | |
| 2 | 360 | | | | | | | | |
| 3 | 540 | | | | | | | | |
| 4 | 672 | | | | | | | | |
| 5 | 756 | | | | | | | | |
| 6 | 792 | | | | | | | | |