#3

**Table 1. Problem #3**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rent | $100 | per day |  |  |  |  |  |  |  |
| worker | $100 | per day |  |  |  |  |  |  |  |
| Price1 | $20 |  |  |  |  |  |  |  |  |
| Price2 | $9.50 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| L | Q | MPL | FC | VC | TC | MC | ATC | Profit$20 | Profit$9.5 |
| 0 | 0 |  | $100 | $0 | $100 |  |  | ($100) | ($100.00) |
| 1 | 10 | 10 | $100 | $100 | $200 | 10.00 | 20.00 | $0 | ($105.00) |
| 2 | 18 | 8 | $100 | $200 | $300 | 12.50 | 16.67 | $60 | ($129.00) |
| 3 | 24 | 6 | $100 | $300 | $400 | 16.67 | 16.67 | $80 | ($172.00) |
| 4 | 28 | 4 | $100 | $400 | $500 | 25.00 | 17.86 | $60 | ($234.00) |
| 5 | 30 | 2 | $100 | $500 | $600 | 50.00 | 20.00 | $0 | ($315.00) |
| 6 | 31 | 1 | $100 | $600 | $700 | 100.00 | 22.58 | ($80) | ($405.50) |

**Figure 1. Problem #3**

#5

**Table 2. Problem #5**

|  |  |  |  |
| --- | --- | --- | --- |
| FC | $10 |  |  |
| VC | $5 | per hour |  |
|  |  |  |  |
| Hours | Quantity | MPH | TC |
| 0 | 0 |  | $10 |
| 1 | 10 | 10 | $15 |
| 2 | 18 | 8 | $20 |
| 3 | 24 | 6 | $25 |
| 4 | 28 | 4 | $30 |
| 5 | 30 | 2 | $35 |

**Figure 2. Problem #5**

**Figure 3. Problem #5**

Ch 12 #6

**Table 3. Problem #6(Chapter 12)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Quantity | TC | VC | MC(TC) | MC(VC) |
| 0 | $300 | $0 |  |  |
| 1 | $350 | $50 | 50 | 50 |
| 2 | $390 | $90 | 40 | 40 |
| 3 | $420 | $120 | 30 | 30 |
| 4 | $450 | $150 | 30 | 30 |
| 5 | $490 | $190 | 40 | 40 |
| 6 | $540 | $240 | 50 | 50 |