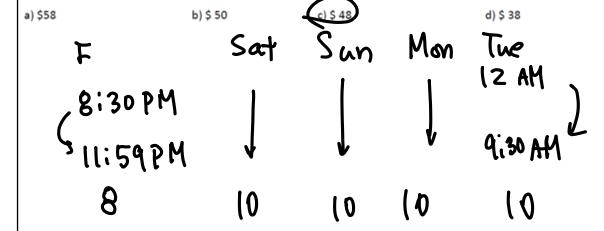
22. The long term parking rate at Raleigh-Durham Airport is \$2 per hour (or part of an hour) with \$10 daily maximum (12:00 a.m. to 12:00 a.m.). Suppose you park your car on Friday afternoon at 8:30 p.m. and pick it up on the following Tuesday at 9:30 a.m., what will be you parking fee?



23. Solve:
$$2x(10x + 8) = -3(x+1)$$

a) $x = \frac{3}{4}, \frac{1}{5}$

b) $x = -\frac{3}{4}, \frac{1}{5}$

c) $x = -\frac{3}{4}, -\frac{1}{5}$

d) $x = \frac{3}{4}, -\frac{1}{5}$

20 $x^2 + 16x = -3x - 3$

60

20 $x^2 + 16x + 3 = 0$

15 4

20 $x^2 + 15x + 4x + 3 = 0$

5 $x(4x + 3) + (4x + 3) = 0$

(4 $x + 3$) (5 $x + 1$) = 0

4 $x + 3 = 0$

5 $x + 3 = 0$

4 $x + 3 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

4 $x + 3 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

4 $x + 3 = 0$

5 $x + 1 = 0$

24. Solve: $(2x-3)^2 - 8 = 0$

(a)
$$\times = \frac{3 \pm 2\sqrt{2}}{2}$$

b)
$$x = 3, -2$$
 c) $x = -3 \pm 2\sqrt{2}$

d)
$$x = \frac{-3 \pm 2\sqrt{2}}{2}$$

$$(2x-3)=8$$

$$2x = 3 \pm 18$$

$$X = \frac{5}{3 \mp \sqrt{8}}$$

25. The profit, P, realized by a company varies directly as the number of products s it sells. If a company makes a profit of \$7800 on the sale of 325 products, what is the profit when the company sells 5000 products?

a)\$120,000

d) \$60,000

$$\frac{7800}{325} = \frac{X}{5000}$$

ab=ab

26. If the voltage, V, in an electric circuit is held constant, the current I, is <u>inversely proportional</u> to the resistance, R. If current is 120mA (milliampere) when resistance is 5 ohms, find the current when the resistance is 15 ohms.



b) 357mA

c) 360mA

d) 200mA

$$\frac{600}{15} = X = 40$$