

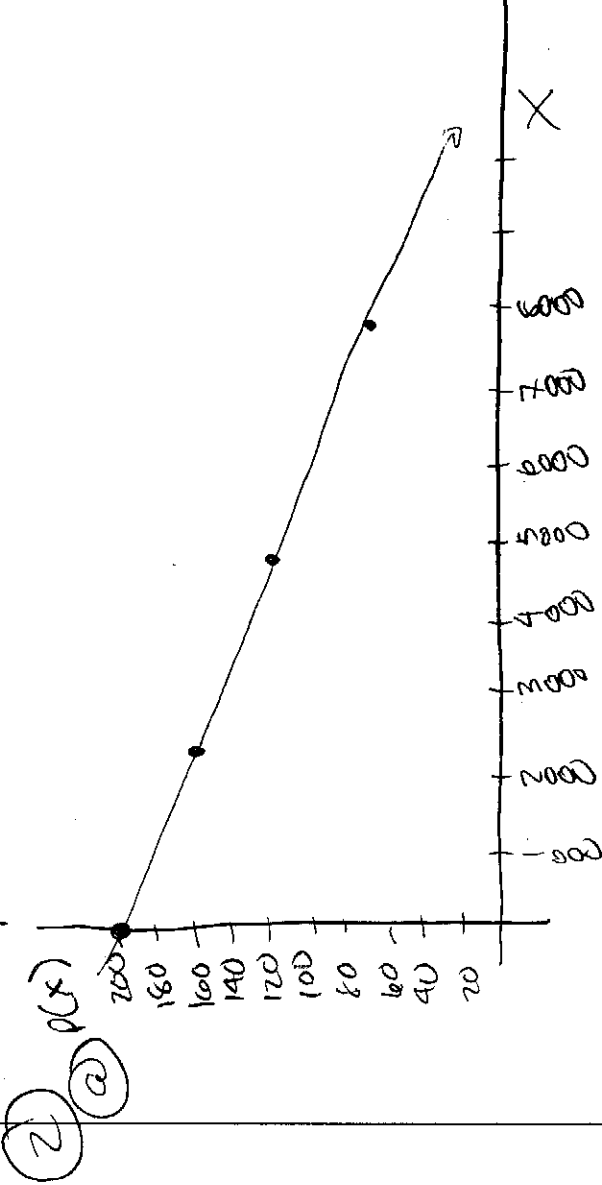
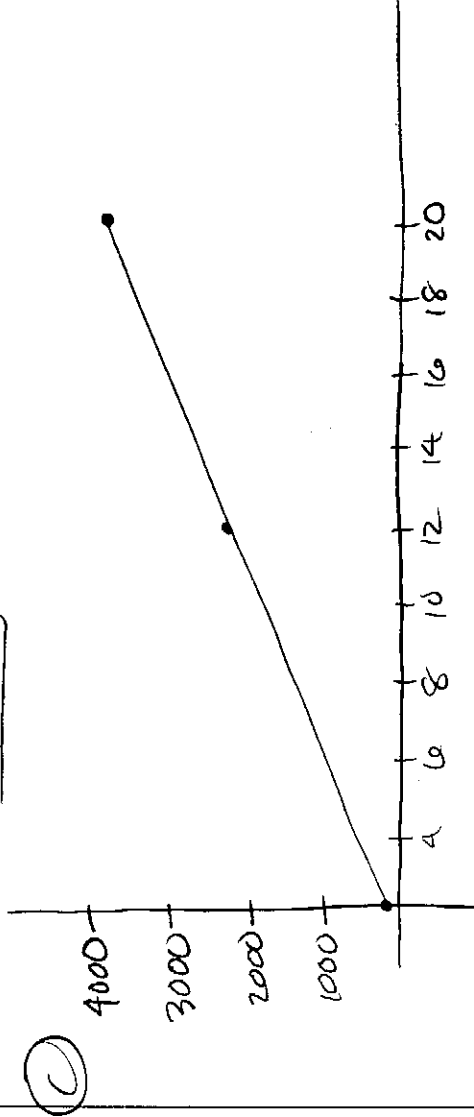
# Cost Profit + Revenue

1  $C(0, 200)(20, 3800)$   $C(x) = 180x + 200$

2  $\frac{3800 - 200}{20 - 0} = \frac{3600}{20} = 180$

3  $C(x) = 180(12) + 200$

$C(12) = 2360$



4  $R(x) = -0.02x^2 + 3.8x$

5  $R(3000) = -0.02(3000^2) + 3.8(3000)$   
 $= 140$

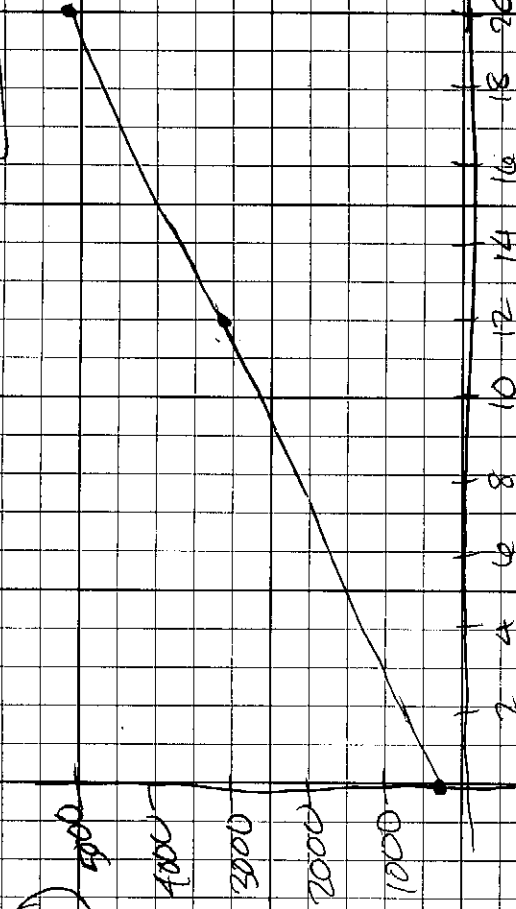
6 the price per item goes down 2 cents for ever power mower in demand.

3  $(0, 300)(20, 5100)$

$(x) = 240x + 300$

$\frac{5100 - 300}{20 - 0} = \frac{4800}{20} = 240$

10  $C(12) = 240(12) + 300$   $\$3180$



4 a  $(0, 20000)(10, 2000)$

$V(t) = -1800t + 20000$

$\frac{2000 - 20000}{10 - 0} = \frac{-18000}{10} = -1800$

b  $V(t) = 1800(t) + 20000$

$\$9200$

