
Mathematical Modeling 4th Edition

Solution Manual

1. An automobile manufacturer makes a profit of \$1,500 on the sale of a certain model. It is estimated that for every \$100 of rebate, sales increase by 15%.
(a) What amount of rebate will maximize profit? Use the five-step method, and model as a one-variable optimization problem.

Step 1: Ask the question.

Variables: r = rebate (\$)
 s = number of cars sold
 P = profit (\$)

Assumptions: s = $s_0 (1+0.15(r/100))$
 P = $(1500-r) s$
 $s \geq 0$, $0 \leq r \leq 1500$
 where the constant s_0 is the number of sales without any rebate

Objective: Maximize P .

Step 2: Select the modeling approach.

We will model this problem as a one variable optimization problem. See text p. 6.

Step 3: Formulate the model.

Let $x=r$ and $y=P$, and write
 $y = f(x) = (1500-x) s_0 (1+0.15(x/100))$.
Our goal is to maximize $f(x)$ over the interval $[0, 1,500]$.

Step 4: Solve the model.

Compute $f'(x) = 1500 s_0 (0.0015) + (-1) s_0 (1+0.15(x/100)) = 0$ at $x = 416.6667$.
 $f(x) = 1760.42$ and since the graph of $f(x)$ is a parabola we know this is the global maximum.

Step 5: Answer the question.

According to this model, the optimal policy is to offer a rebate of around \$420, which should result in about a 17% increase in profits as compared to no rebate.

(b) Compute the sensitivity of your answer to the 15% assumption. Consider both the amount of rebate and the resulting profit.

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art school confidential is a 2006 american comedy drama film directed by terry zwigoff and starring max minghella sophia myles john malkovich jim broadbent matt keeslar ethan suplee joel moore nick swardson adam scott and anjelica huston

art school confidential 2006 theatrical trailer youtube - Aug 19 2022

feb 10 2009 146k views 14 years ago art school confidential is a 2006 film directed by terry zwigoff starring max minghella sophia myles john malkovich jim broadbent and nick swardson jerome

[art school confidential official trailer 1 john malkovich movie](#) - Jun 16 2022

oct 5 2012 art school confidential official trailer 1 john malkovich movie 2006 hd rotten tomatoes classic trailers 1 56m subscribers subscribe 806 share save 129k views 10 years ago subscribe to

art school confidential movie review common sense media - Apr 14 2022

art school confidential is the beaten down cynical hipster brother of american pie all about how to be popular and how to get laid but with worse language and a far bleaker outlook on life there are lots of memorable turns in this film

art school confidential 2006 mubi - Apr 26 2023

art school confidential directed by terry zwigoff united states 2006 comedy 102 synopsis starting from childhood attempts at illustration the protagonist pursues his true obsession to art school but as he learns how the art world really works he finds that he must adapt his vision to the reality that confronts him

art school confidential 2006 imdb - Oct 01 2023

may 12 2006 art school confidential directed by terry zwigoff with max minghella sophia myles john malkovich jim broadbent starting from childhood attempts at illustration the protagonist pursues his true obsession to art school but as he learns how the art world really works he finds that he must adapt his vision to the reality that confronts him

art school confidential 2006 imdb - Nov 21 2022

fwomp 22 may 2006 yesterday i went to my local art theater to watch an art film about a future artist attending art school whew i m glad i got that out but lets chat about this art film shall we here we go it s got a lot going for it first and foremost is an impressive script

[art school confidential movie reviews rotten tomatoes](#) - Sep 19 2022

director terry zwigoff presents a scathing satire of art school student existence but derails the movie about a talented young artist well played by max minghella with an artificial sub plot

[art school confidential metacritic](#) - Oct 21 2022

summary art school confidential follows talented young artist jerome platz minghella as he escapes from high school to a tiny east coast art school here the boyish freshman s ambition is to become the world s greatest artist sony pictures classics

art school confidential movies on google play - Mar 26 2023

about this movie arrow forward art school confidential follows talented young artist jerome platz max minghella as he escapes from high school to a tiny east coast art school here the boyish freshman s ambition is to become the world s greatest artist like his hero picasso

[art school confidential 2006 filmaffinity](#) - Jan 24 2023

art school confidential year 2006 running time 102 min country united states director terry zwigoff screenwriter daniel clowes comic daniel clowes cast music david kitay cinematography

art school confidential film 2005 beyazperde com - Jul 30 2023

Özet jerome genç bir sanatçı adayı gözünü biraz yukarılara dikmiş dünyanın en iyi sanatçısı olmak istiyor eğitimli bir sanatçı olmaya karar veriyor ve alanında son derece önemli bir okula kayıt yaptırıyor fakat zamanla farkediyor ki kendisinde bir tutukluk var ve sanat dünyasında yükselmek o kadar da kolay olmayacak

art school confidential 2006 plot summary imdb - May 16 2022

surrounded by a collection of art school clichéd misfits and a cloud of mystery on the campus due to a strangler who has murdered many young female art students jerome plies his considerable talent and is smitten by an older young woman audrey sophia myles

[art school confidential 2006 full cast crew imdb](#) - Jul 18 2022

art school confidential 2006 cast and crew credits including actors actresses directors writers and more

art school confidential 2006 the movie database tmdb - Feb 22 2023

may 5 2006 overview starting from childhood attempts at illustration the protagonist pursues his true obsession to art school but as he learns how the art world really works he finds that he must adapt his vision to the reality that confronts him

art school confidential - Feb 10 2022

art school confidential follows jerome an art student who dreams of becoming the greatest artist in the world arriving as a freshman at a prestigious east coast art school filled with every artsy type there is jerome quickly discovers his affected style

art school confidential review movies the new york times - Mar 14 2022

may 5 2006 art school confidential directed by terry zwigoff comedy drama r 1h 42m by a o scott may 5 2006 we first encounter jerome platz the hapless hero of terry zwigoff s hapless art