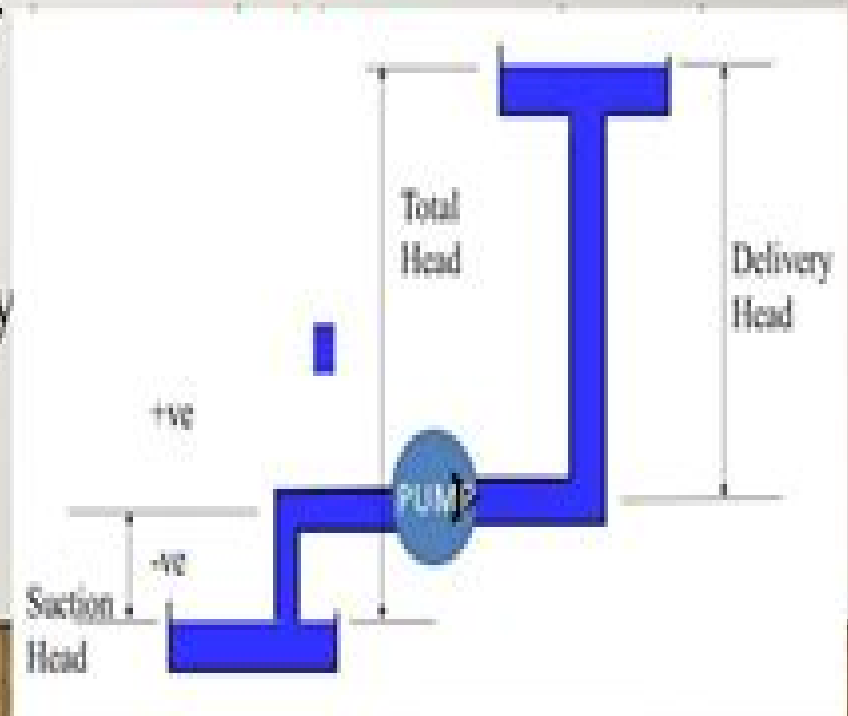


## 1 EXAMPLE 7.2 CENTRIFUGAL PUMP

- A centrifugal pump lifts water under a static head of **36 m** of water of which **4 m** is suction lift. ~~Suction and delivery pipes are both **150 mm** in diameter. The head loss in suction pipe is **1.8 m** and in delivery pipe **7 m**. The impeller is **380 mm** in diameter and **25 mm** wide at mouth and revolves at **1200 r.p.m.** Its exit blade angle is **35°**. If the manometric efficiency of~~
- (i) The discharge through the pump, and
- (ii) The pressure at the suction and delivery branches of the pump



# Hydraulic Machine Solved Problems

**Michael Brown**



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web the discriminant for any quadratic equation of the form  $y = ax^2 + bx + c$  is found by the following formula and it provides critical information regarding the nature of the roots solutions of any quadratic equation formula discriminant  $b^2 - 4ac$

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web the discriminant is  $b^2 - 4ac$  which comes from the quadratic formula and we can use this to find the nature of the roots roots can occur in a parabola in 3 different ways as shown in the

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web the discriminant is the part of the quadratic formula underneath the square root symbol  $b^2 - 4ac$  the discriminant tells us whether there are two solutions one solution or no solutions quick review of the quadratic formula the quadratic formula says that  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  for any quadratic equation like  $ax^2 + bx + c = 0$

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