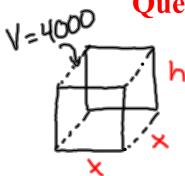
Questions From Homework



$$\frac{X_3}{1000} = V$$

$$1000 = X_3 V$$

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$$h = \frac{4000}{400}$$

$$A = X_9 + 4 \times \left[\frac{X_9}{4000} \right]$$

$$A = x^3 + 16000 x^{-1}$$

$$A_1 = 9x - 10000$$

$$Q = 9x - \frac{x_2}{10000}$$

$$\frac{\chi_g}{10000} = 9x$$

$$X_3 = 8000$$

$$9X_3 = 16000$$

$$X = 90 cm$$

Questions From Homework the distance.

5. Find the point on the parabola $2y = x^2$ that is closest to the point (-4, 1)

$$Q = \sqrt{\frac{x_{1}}{x_{1}} + 8x + 1} = \left[\frac{x_{1}}{x_{1}} + 8x + 1\right]_{k}^{k}$$

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$$F(x) = x^{3} + 8$$

$$O = x^{3} + 8$$

$$-8 = x^{3}$$

$$-8 = x^{3}$$

$$-3 = x$$

$$y = \frac{3}{3}$$

$$y = \frac{3}{3}$$

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You are in a dune buggy in the desert 12km due south of the nearest point A on a straight east-west road. You wish to get to point B on the road 10km east of point A. If your dune buggy can average 15km/h travelling over the desert, and 39km/h travelling on the road, toward what point on the road should you head to in order to minimize your travel time from A to B?

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T =
$$\frac{1}{5}$$

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T =

You have 400 m of fencing to construct a rectangular pen that will be divided into 2 sections of equal size. Find the dimensions that would maximize the area of the

whole pen.

A= xy

$$A = x \frac{100 - 3x}{3}$$

Let $x = length$

Let $y = width$

$$A = \frac{100x - 3x^3}{3}$$

$$A =$$

Find the points on the parabola $y = 6 - x^2$ that are closest to the point (0, 3)

Homework