

$$V = \pi r^{3} h^{2}$$
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Let r = the radius

A= 211-0+211-h

H= 2776 + 20005-1

$$r^3 = \frac{500}{\pi}$$

$$V = \pi r^{3} \frac{1}{100}$$

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$$V = 169.56 r - 3\pi r^{3}$$

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$$V = 84.78 r - \pi r^{3}$$

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$$V = 84.78$$

$$V = 84.$$

Oc)
$$y = x^5 + 8x^3 + x$$
 $y' = 5x^4 + 34x^3 + 1$
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The function is always increasing on $(-\infty, \infty)$

increasing

$$h = \frac{\mu_{s}}{1000}$$

$$1000 = \mu_{s} + \mu_{s}$$

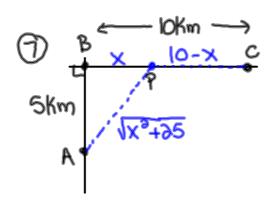
$$A = \mu_{s} + \mu_{s}$$

$$\Gamma^3 = \frac{500}{\pi}$$

$$\Gamma = \sqrt[3]{\frac{500}{17}} = 5.4 \text{ cm}$$

$$\frac{-\sqrt{11}}{1} = 5.4 \text{ cm}$$

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Let x = the distance from B to P

$$T = \frac{\partial}{S}$$

$$T = \sqrt{x^2+35} + \sqrt{0-x}$$
5

$$T = \frac{1}{3}(x^{2}+35)^{3} + \frac{10}{5} - \frac{1}{5}x$$

$$T' = \frac{1}{8}(x^{3} + 35)^{3}(xx) - \frac{1}{5}$$

$$T' = \frac{X}{3(x^2+35)^{3/2}} - \frac{1}{5}$$

$$\frac{1}{5} = \frac{x}{3\sqrt{x^2+35}}$$

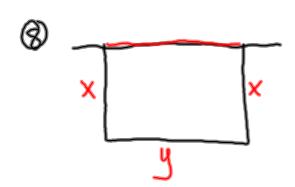
$$(5x)^2 = (3\sqrt{x^2+35})^2$$

$$\partial (x^2 + 2 \partial x) = (x^2 + 2 \partial x)$$

$$35x^3 = 9x^3 + 335$$

$$\chi^{0} = \frac{385}{16}$$

.. You should head to a point 3.75 km $X = \pm \frac{15}{4}$ east of B.



$$P = 3x + y$$

$$500 = 3x + y$$

$$500 - 3x = y$$

: 125m x 250m

A=
$$xy$$
 as a single variable

A= $x(500-2x)$

A= $500x-3x^3$

A'= $500-4x$
 $4x = 500$
 $x = (35m)$
 $x = (35m)$
 $x = (35m)$