

The results of the final exam and the final grades will be posted on Blackboard.

The final exams will be kept for a year and then destroyed. If you want to look at your final exam, let me know. I can either e-mail you the scan of it or we can set up an appointment for you to look at it.

Enjoy the summer!

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(7)

$x_2(t) = \frac{15}{12}t$
 $y_2(t) = \frac{15}{12}t$

$x_1 = 20t$
 $y_1 = 0$
 $x_1 = x_1(t)$
 $\frac{dx_1}{dt} = 20$

distance between $A(x_1, y_1)$ and $B(x_2, y_2)$

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

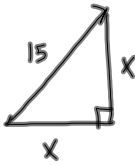
$$d^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$$

$$2d(d') = 2(x_2 - x_1)(x_2' - x_1') + 2(y_2 - y_1)(y_2' - y_1')$$

$$d' = \frac{(x_2 - x_1)(x_2' - x_1') + (y_2 - y_1)(y_2' - y_1')}{\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}}$$

$$d' = \frac{\left(\frac{45}{12} - 10\right)\left(\frac{15}{12} - 20\right) + \left(\frac{45}{12} - 0\right)\left(\frac{15}{12} - 0\right)}{\sqrt{\left(\frac{45}{12} - 10\right)^2 + \left(\frac{45}{12}\right)^2}}$$

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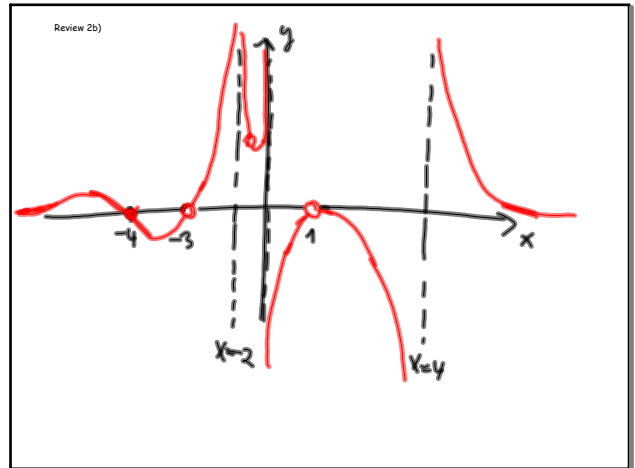
$$x^2 + x^2 = 15^2$$

$$2x^2 = 15^2$$

$$x^2 = \frac{15^2}{2}$$

$$x = \pm \sqrt{\frac{15^2}{2}} = \frac{15}{\sqrt{2}}$$

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