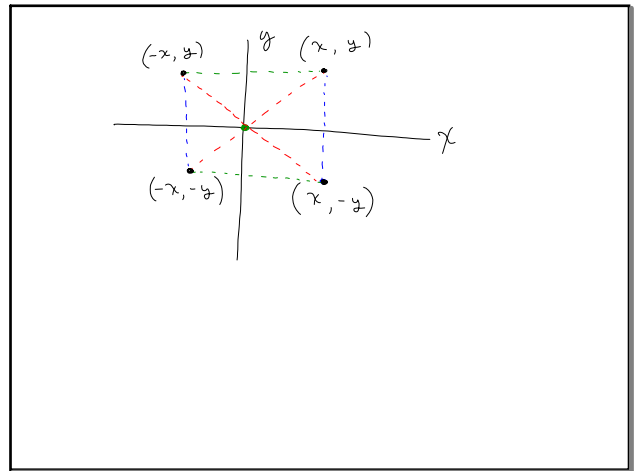
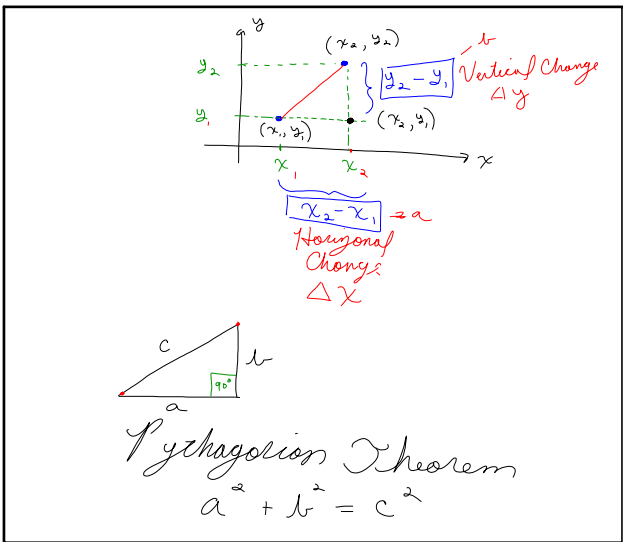


Feb 12-10:59 AM



Feb 12-11:08 AM



Feb 12-11:13 AM

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

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

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$$\sqrt{x^2 + 4} \neq \sqrt{4x^2}$$

$$\sqrt{4} \cdot \sqrt{x^2}$$

$$2x$$

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$(-3, 7)$
 $(-\frac{1}{2}, \frac{1}{2})$
 (x_1, y_1)
 (x_2, y_2)
 $(2, 4)$

$$\frac{-3+2}{2}, \frac{7+4}{2}$$

$$-\frac{1}{2}, \frac{11}{2}$$

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Circle

$$x^2 + y^2 = r^2$$

$$(x-h)^2 + (y-k)^2 = r^2$$

Center of Circle is: (h, k)

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$$x^2 + 2x + 4y^2 - 6y - 2 = 10$$

$$\boxed{x^2 + 2x} + \boxed{y^2 - 6y} = 12$$

$\begin{matrix} 2 \cdot \frac{1}{2} = 1 \\ 1^2 = 1 \end{matrix}$
 $\begin{matrix} -6 \cdot \frac{1}{2} = -3 \\ (-3)^2 = 9 \end{matrix}$

$$x^2 + 2x + 1 + y^2 - 6y + 9 = 12 + 1 + 9$$

$$(x+1)^2 + (y-3)^2 = 22$$

$h = -1 \quad k = 3$

Center: $(-1, 3)$

$$\boxed{(x+1)^2 + (y-3)^2 = \sqrt{22}}$$

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$$f(x) = x^2$$

$$= (x-h)^2$$

$h = 4$

$$(x-4)^2$$

$h = -5$

$$(x - (-5))^2$$

$$(x+5)^2$$

Feb 12-11:44 AM