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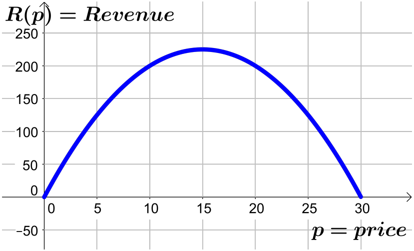

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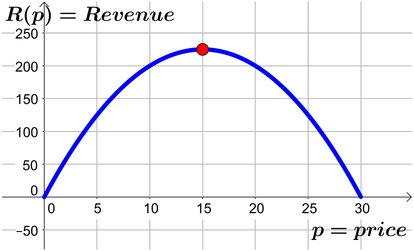

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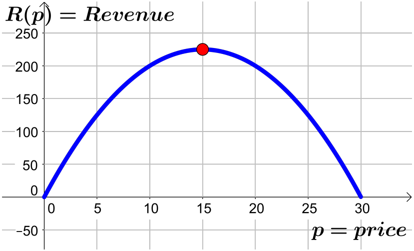

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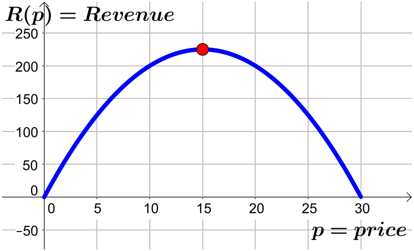

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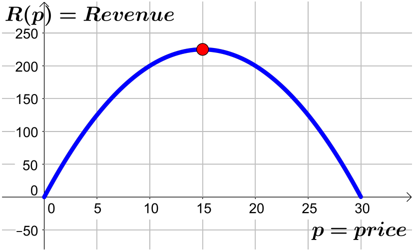

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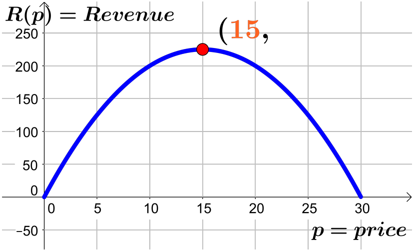

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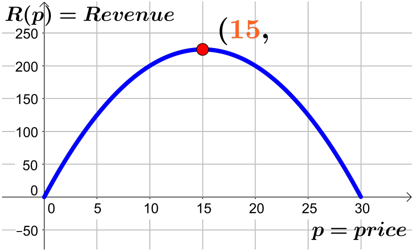

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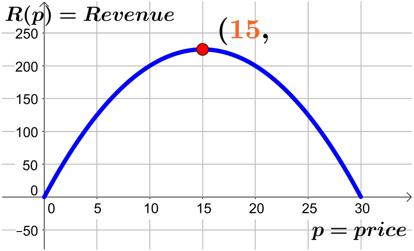

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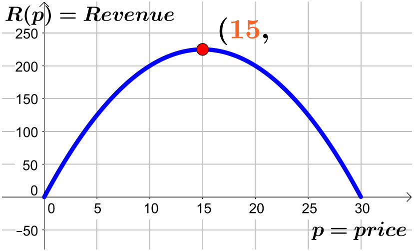

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$$R(p) = R(15) = 30 \cdot 15 - 15^2$$

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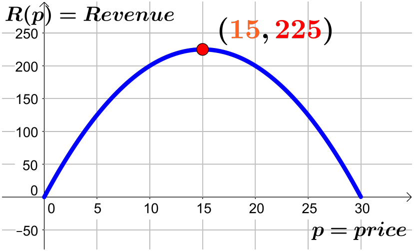

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So, the max Revenue at the vertex:

$$R(p) = R(15) = 30 \cdot 15 - 15^2 = 225$$

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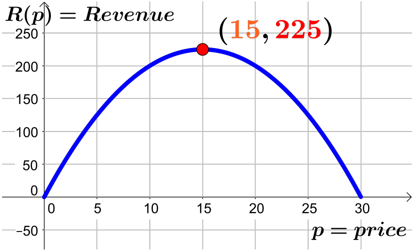

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Conclusion: The max Revenue is $^{\$}225$ if we sell mics for $^{\$}15$ each

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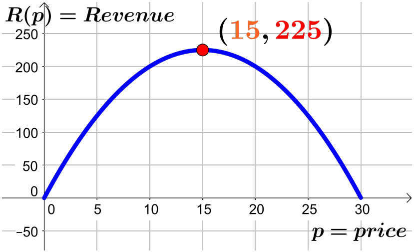

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Conclusion: The max Revenue is $225 if we sell mics for $15 each

Note: Our $x-$intercepts, also, help us interpret our application.

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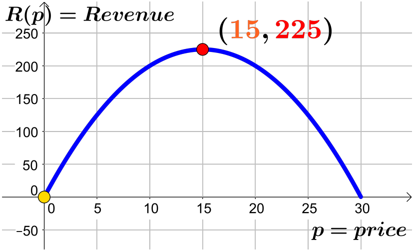

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If $p = 0$ (the microphones are free) then Revenue, $R = 0$

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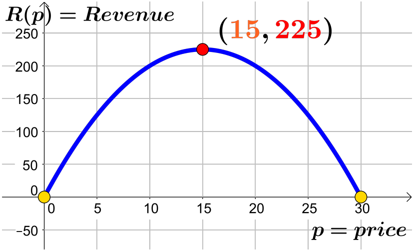

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At the other intercept, $R = 0$ because no one is willing to buy any!