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| **Solving Equations Graphically** |
| **(a)** |
| Plot the graph of $y=6+x-x^{2}$. Use the graph to find the solutions to equation (a) $6+x-x^{2}=0$ (b) $6+x-x^{2}=-6$ |
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| **(b)** |
| Plot the graph of $y=x^{2}-4x+3$. Use the graph to find the solutions to equation (a) $x^{2}-4x+3=0$ (b) $x^{2}-4x+3=8$ |
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| **(c)** |
| Plot the graph of $y=8+2x-x^{2}$. Use the graph to find the solutions to the equation (a) $8+2x-x^{2}=5$ (b) $8+2x-x^{2}=8-x$ |
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| **(d)** |
| Plot the graph of $y=x^{3}-3x$. Use the graph to estimate the solutions to the equation(a) $x^{3}-3x=1$ (b) $x^{3}-3x=x+1$ |
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