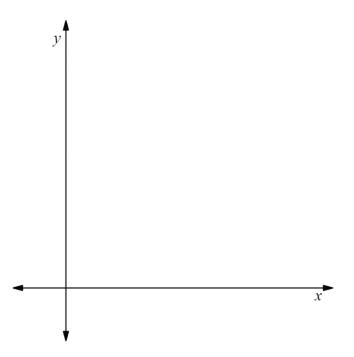
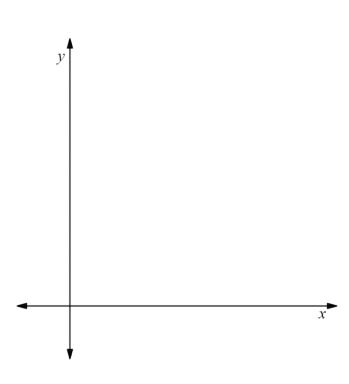
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Learning Goal 3.6	Linear Approximations.
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Linear Approximation





Example Find the linearization of $f(x) = \sqrt{x}$ at $x_0 = 4$ and use it to approximate the value of $\sqrt{3.8}$ without a calculator.

Example Approximate the value of cos 32°.

Example Find the linearization of the function $f(x) = \sqrt{x+1}$ at $x_0 = 1$. Determine the values for x for which the linear approximation is accurate to within 0.1.