### Key Equations

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| Difference of potential energy |  |
| Potential energy with respect to zero of potential energy at |  |
| Gravitational potential energy near Earth’s surface |  |
| Potential energy for an ideal spring |  |
| Work done by conservative force over a closed path |  |
| Condition for conservative force in two dimensions |  |
| Conservative force is the negative derivative of potential energy |  |
| Conservation of energy with no non-conservative forces |  |