# 5.4 – Direct Variation

Direct Variation: **varies directly** as

## This means as increases, \_\_\_\_\_\_\_\_\_\_

 as decreases, \_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hrs worked |  |  |  |  |
| Pay |  |  |  |  |

How would you find the constant rate?

General Equation for direct variation:

1. If varies directly as and when , find when .
2. The force required to stretch a spring, , varies directly with the amount the spring is stretched, . Ten pounds is needed to stretch a spring inches. How many pounds would be needed to stretch the spring inches?
3. The distance, , varies directly with the time, . If you have driven miles for hours. How long would you drive for miles?