

12 | 52.6 #5 1-4 AU, 5, 8, 10, 13, 17

① If $y = kx$, then y varies directly as x .

② If $y = kx$ then k is the variation constant or "constant of proportionality".

③ If $y = \frac{k}{x}$, then y varies inversely as x .

④ If $y = kxz$, then y varies jointly as x and z .

⑤ G varies directly with the number of hours n that you study. $G = kn$

⑧ Two lines that are perpendicular and have slopes, the slope of one is inversely proportional to the other. $m_1 = \frac{k}{m_2}$

⑩ The volume of grain that a silo can hold varies jointly as the height and the square of the radius.

$$V = khr^2$$

⑬ $A = \pi r^2$; Area of a circle is proportional to the square of the radius

⑰ $T = 3W + 5$ NOT variation