****Direct and Inverse Proportion Statements

Match the word descriptions to mathematical proportion formulae.

|  |  |  |  |
| --- | --- | --- | --- |
| $y$ is directly proportional to $x$ | $y$ varies inversely with $x$ | $$y=k\sqrt{x}$$ | $$y=kx^{2}$$ |
| $y$ is inversely proportional to the square root of $x$ | $y$ varies directly with $x^{3}$ | $$y=\frac{k}{\sqrt{x}}$$ | $$y=\frac{k}{x^{3}}$$ |
| $y$ varies inversely with $x^{2}$ | $y$ is directly proportional to the square root of $x$ | $$y=kx^{3}$$ | $$y=\frac{k}{x^{2}}$$ |
| $y$ varies directly with the square of $x$ | $y$ is inversely proportional to $x^{3}$ | $$y=\frac{k}{x^{2}}$$ | $$y=kx$$ |
| $y$ is inversely proportional to the square of $x$ | $y$ is directly proportional to $x^{2}$ | $$y=kx^{2}$$ | $$y=\frac{k}{x}$$ |

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